User’s Manual

X-POS950

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All trademarks are property of their respective owners

Liability Disclaimer

In no event will the manufacturer be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use the product or documentation, even if advised of the possibility of such damages.

Regulatory Information

CE mark compliance

This device complies with **EMC Directive 2004/108/EC** issued by the Commission of the European Community.

Warning: This a Class B product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures

Safety Statement for Lithium Battery

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

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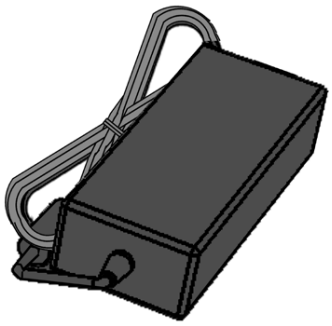
1.

Hardware Setup

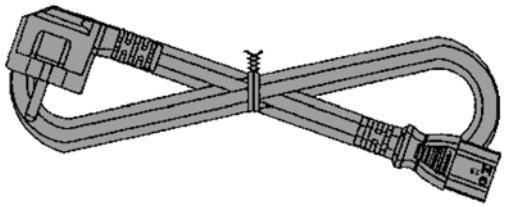
1.1. Packing Contents

1. X-POS950 X 1

2. Power Adapter X 1

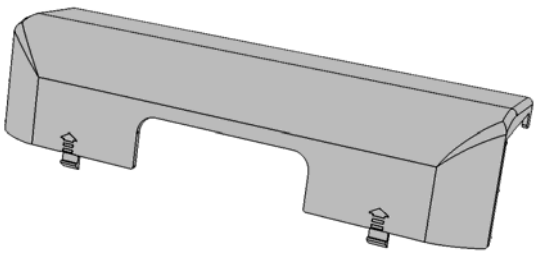


3. Power Cord X 1



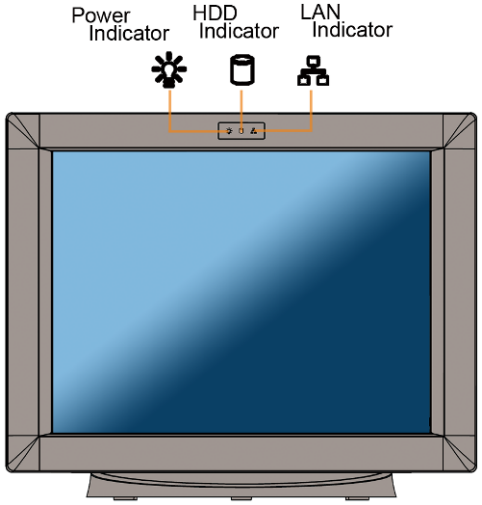
4. Drive and Utility DVD X 1

5. Cable Cover X 1



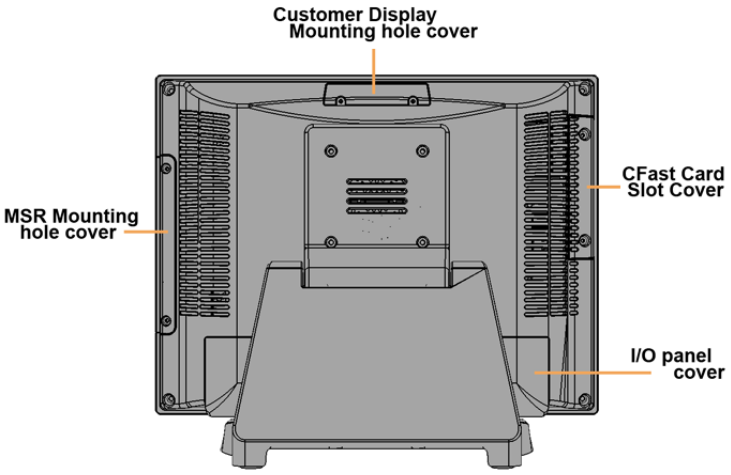
1.2. Quick Tour

Front View and Rear View

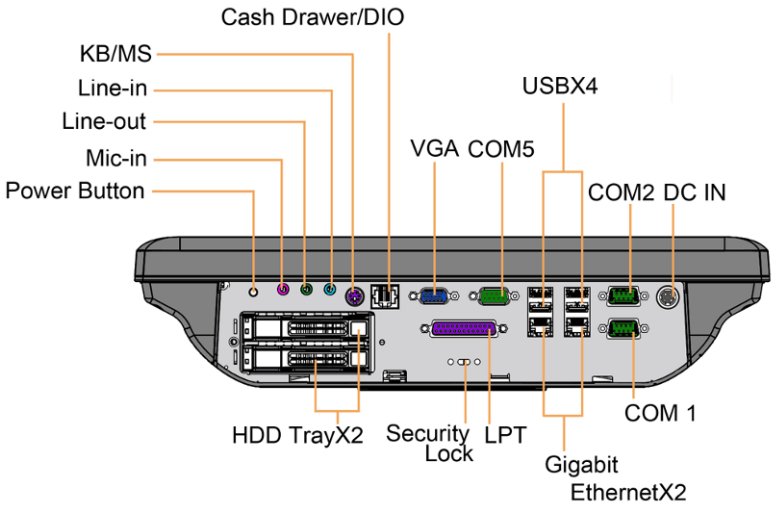


LED Indicator

	The **Power** indicator will glow green when power is on.
	The **HDD** indicator will blink green when the HDD is accessed.
	The **LAN** indicator will blink green when transferring data though the LAN.

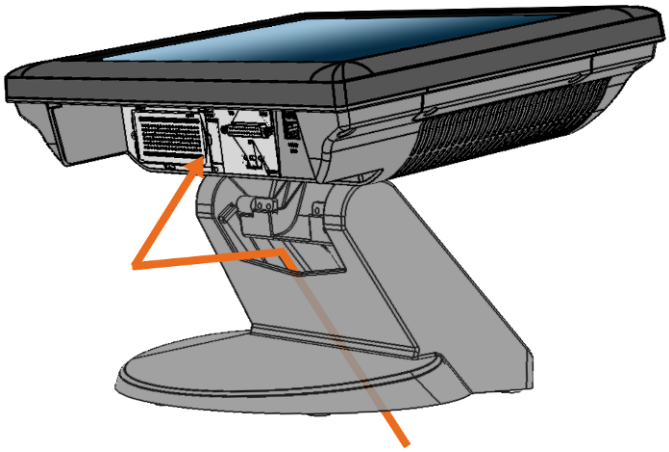


Back Panel I/O



1.3. Basic Peripherals Installation

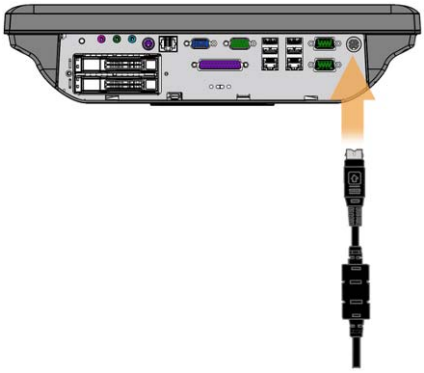
1. All cables and wires from peripherals to the POS device are recommended to be fed through the base in the direction as shown below.



WARNING: Before the cable cover is removed, please make sure the power is off!

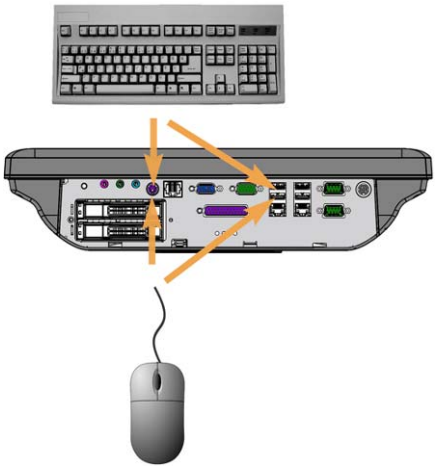
Power Adapter

Connect the DC cable to the DC in jack.



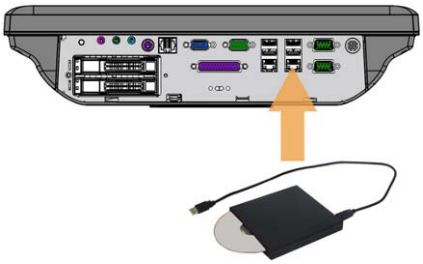
Computer Mouse and Computer Keyboard

Connect your computer mouse and keyboard to **USB 1/2, UBS 3/4** or the **KB/MS** port, depends on which type of computer mouse/keyboard used.



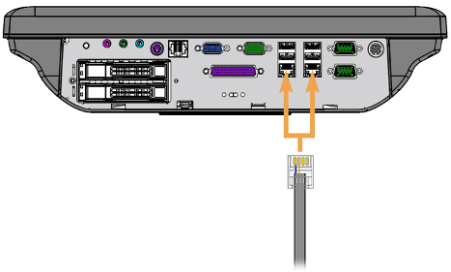
USB ODD

Connect your USB ODD to **USB 1/2** or **UBS 3/4** port.



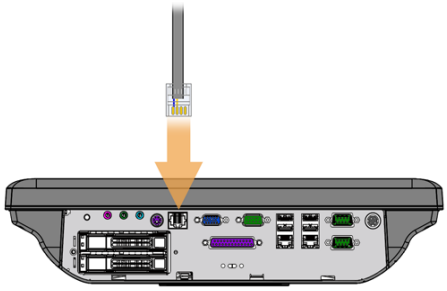
LAN Cable

Connect one end of RJ-45 LAN cable to the **LAN 1** or **LAN 2** port on the back panel of the device, another end to your internet device.



Cash Drawer

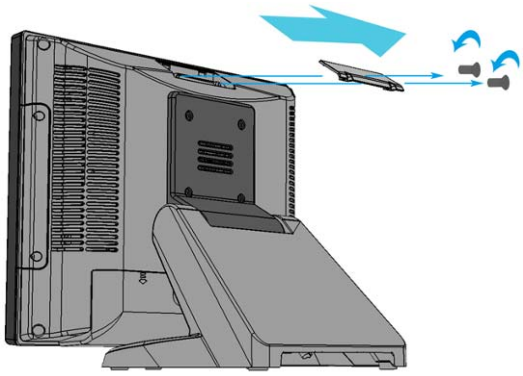
Connect one end of RJ-11 cable to the **Cash Drawer** port on the back panel of the device, another end to your cash drawer.



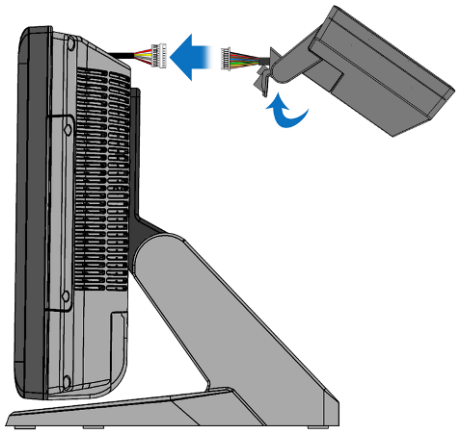
Customer Display

A. Hardware Installation

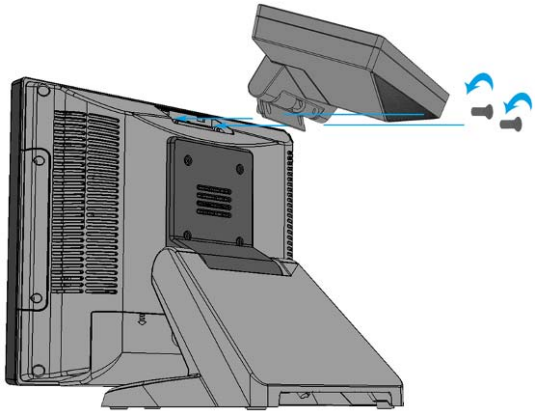
1. Remove the two screws fixing the customer display cover and then remove the cover.



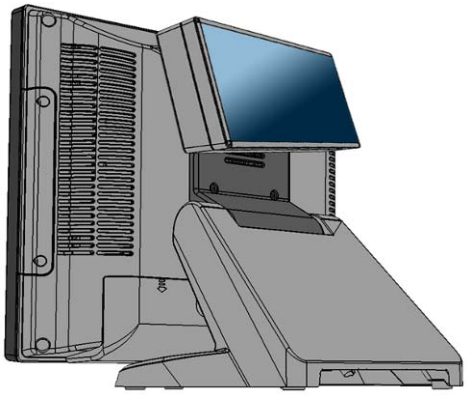
2. Adjust the hinge of the customer display, and then connect to the device as shown below.



3. Mount the customer display to the device and tighten the two M3 screws as shown below.



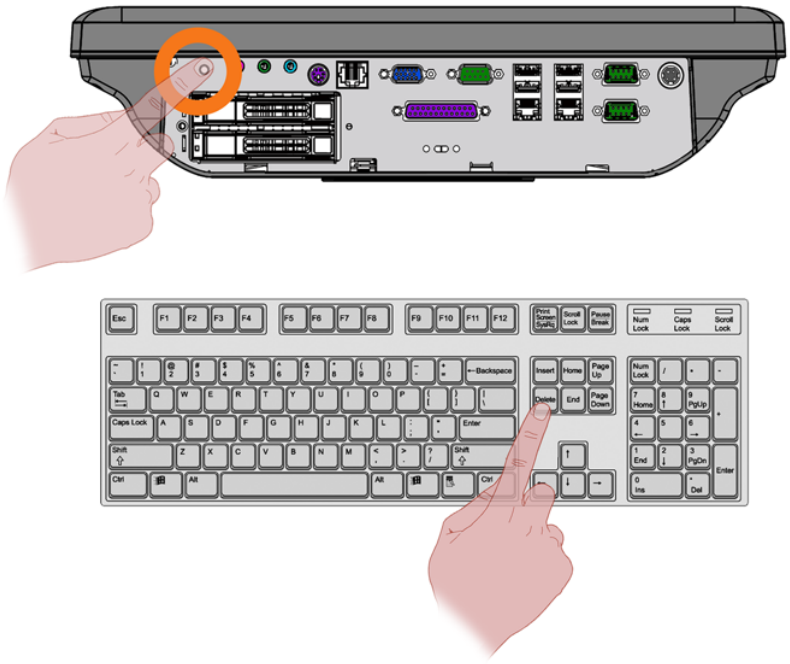
4. Finished.



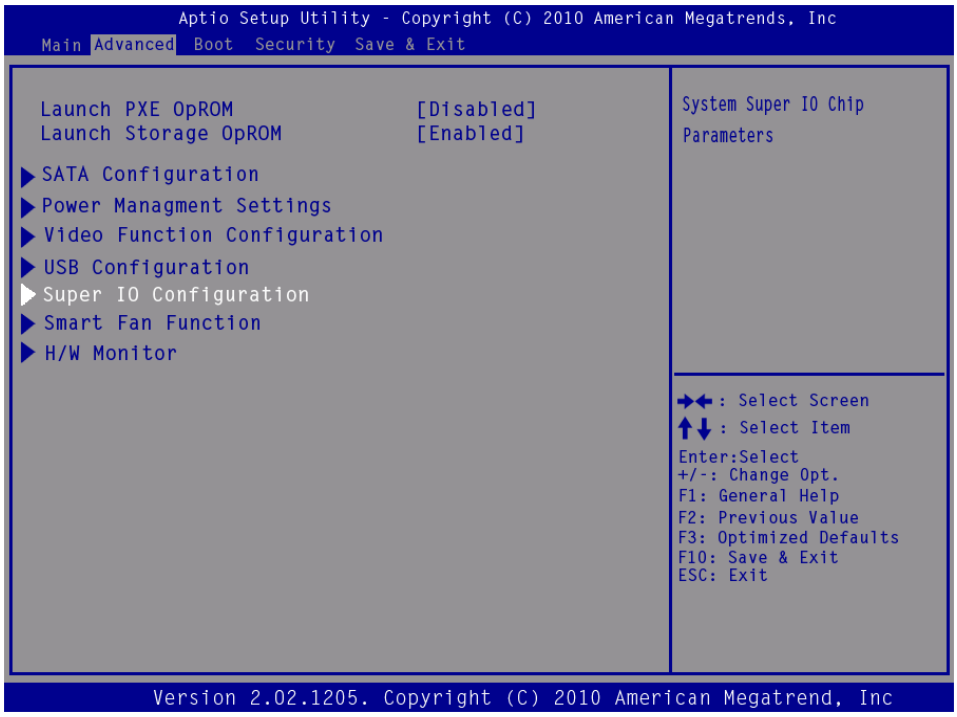
B. Customer Display Power Supply Configuration

Caution: Never enable the power supply without the customer display installed and be sure to disable the power supply before removing the customer display.

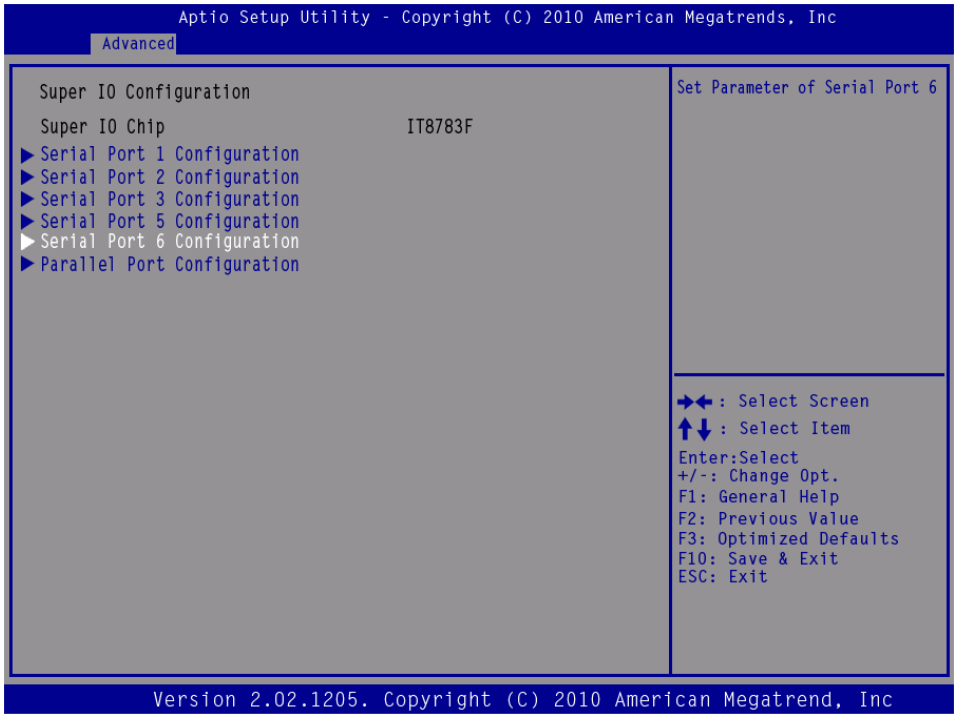
1. Power up the **X-POS950**, and press the **DEL** key to enter BIOS before the Windows screen appear.



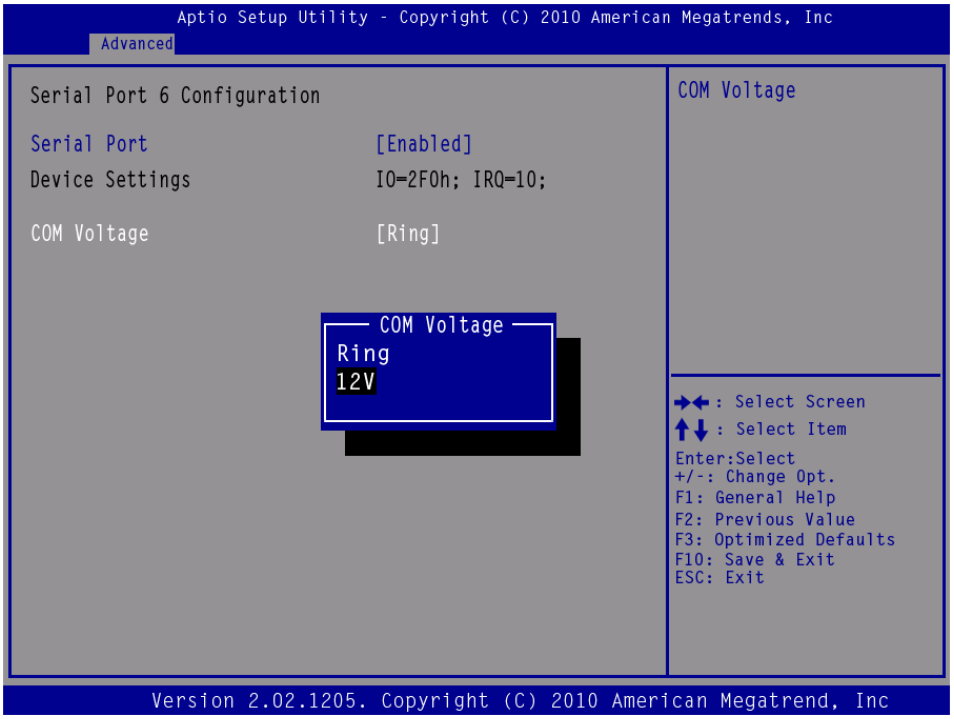
2. Under BIOS screen, use the ➡ or ⬅ key on your computer keyboard to move to the **Advanced** tab, and then use the ⬆ or ⬇ key on your computer keyboard to select **Super IO Configuration** then press **ENTER** key.



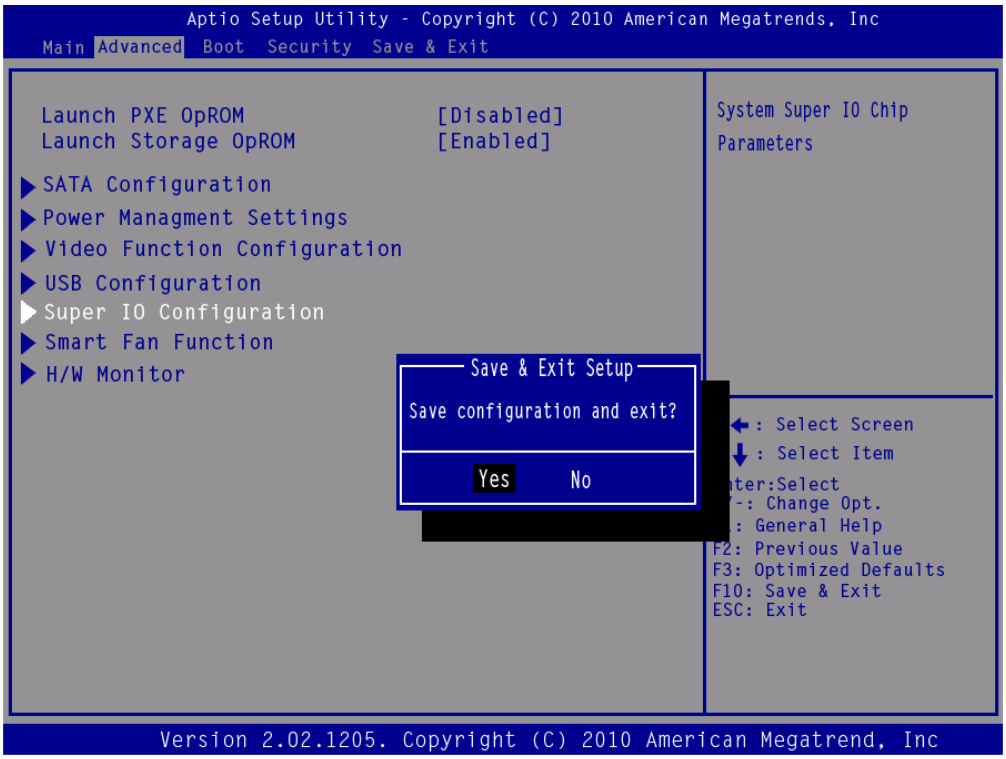
3. Use the ⬆ or ⬇ key to highlight the **Serial Port 6 Configuration**, and the press **ENTER** key.


Aptio Setup Utility - Copyright (C) 2010 American Megatrends, Inc
Advanced
Super IO Configuration
Super IO Chip IT8783F
▶ Serial Port 1 Configuration
▶ Serial Port 2 Configuration
▶ Serial Port 3 Configuration
▶ Serial Port 5 Configuration
▶ Serial Port 6 Configuration
▶ Parallel Port Configuration
Set Parameter of Serial Port 6
→←: Select Screen
↑↓: Select Item
Enter:Select
+/-: Change Opt.
F1: General Help
F2: Previous Value
F3: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.02.1205. Copyright (C) 2010 American Megatrend, Inc

4. Use the ⬆ or ⬇ key to select the **COM Voltage**, and the press **ENTER** key.
   Use the ⬆ or ⬇ key to highlight **12V** and press **ENTER** key.

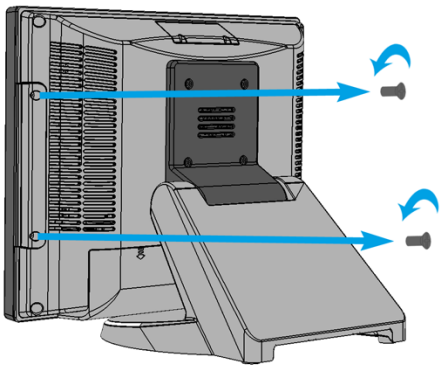


5. Press **F10** key, highlight **Yes** and press **ENTER** key.

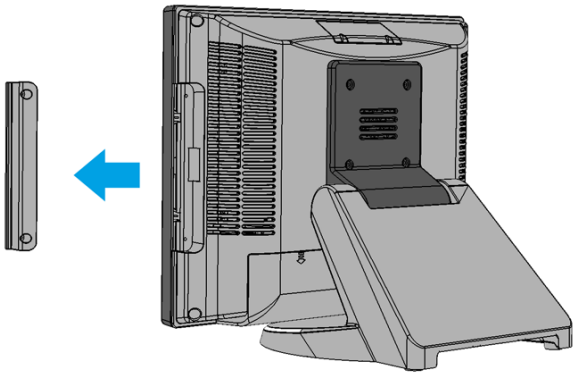


MSR

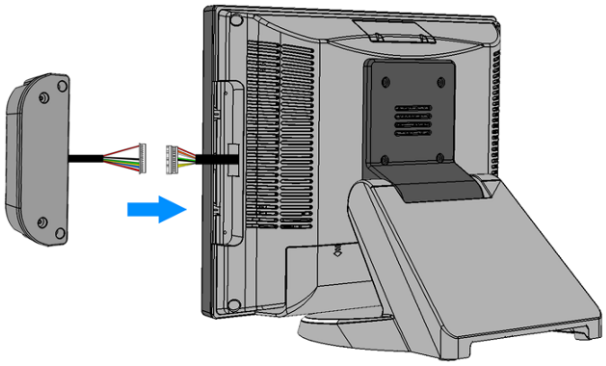
1. Remove the two screws fixing the MSR cover.



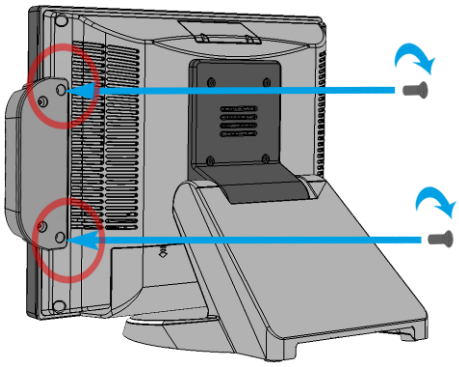
2. Remove the MSR cover from the device.



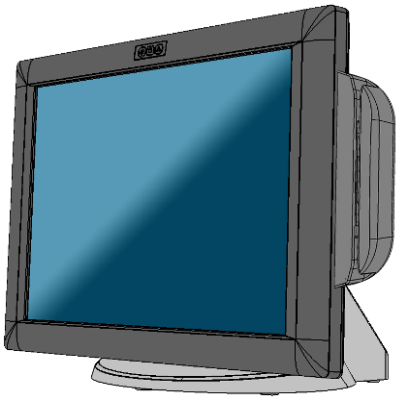
3. Connect the connectors of the MSR assembly to the device.



4. Tighten the two M3 screws to fix the MSR assembly as shown below.



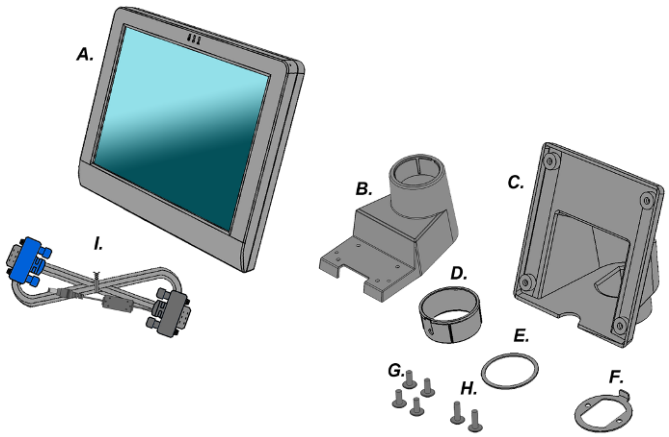
5. Finished.



2nd Display

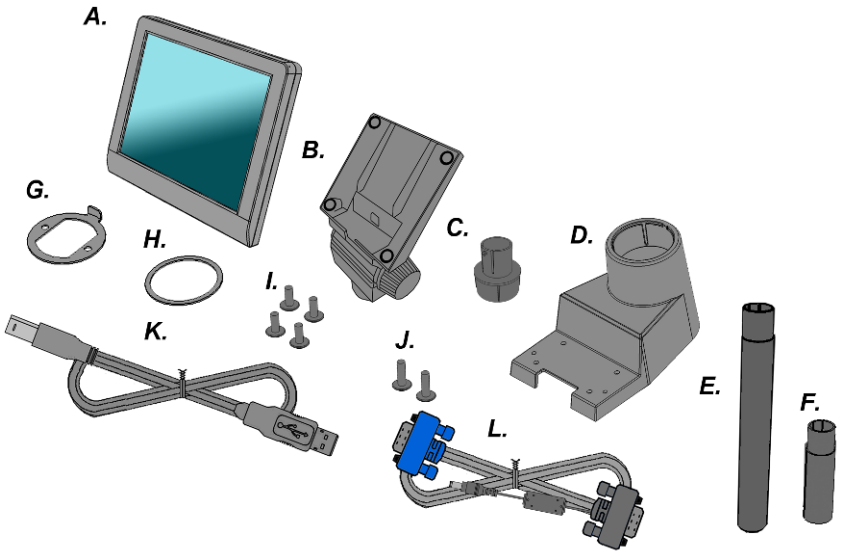
Before installation, make sure that the all item listed below are ready.

Base Type 2nd Display Kit:



A.	2nd Display (12” or 15”)	***F.***	base bracket
B.	2nd display base	***G.***	M3 screw X 4
C.	2nd display support	***H.***	M4 screw X 2
D.	Plastic bush	***I.***	VGA Cable
E.	Plastic spacer		

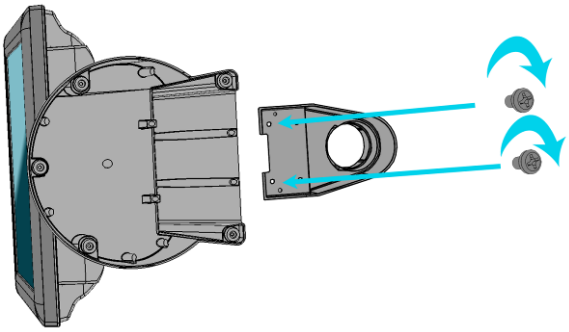
Pole Type 2nd Display Kit:



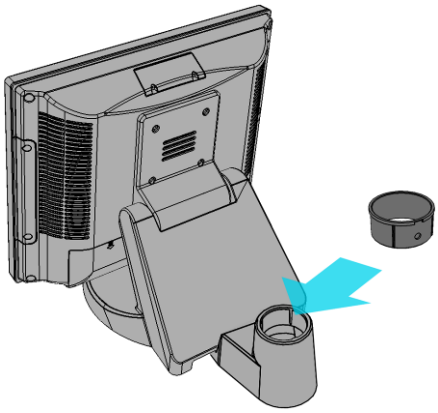
A.	2nd Display (8.4” or 10”)	***G.***	base bracket
B.	2nd Display Mount	***H.***	Plastic spacer
C.	2nd display support	***I.***	M3 screw X 4
D.	2nd display base	***J.***	M4 screw X 2
E.	Plastic pole (long)	***K.***	USB Cable (for USB type 2nd Display only)
F.	Plastic pole (short)	***L.***	VGA Cable (for VGA type 2nd Display only)

Base Type 2nd Display Kit Installation:

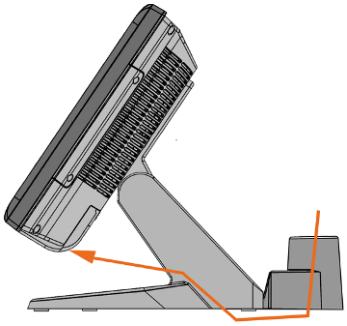
1. Install the 2nd display base (item **B.**) onto the X-POS950 by M4 screw X 2 (Item **H.**) as shown.



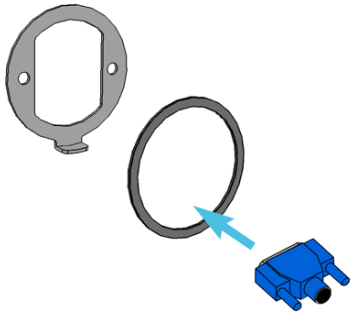
2. Insert the plastic bush into the base as shown.



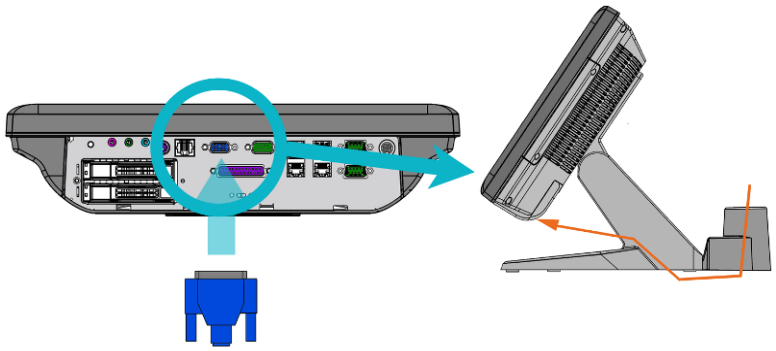
3. Feed the blue connector of the VGA cable (item **I.**) through the base of the device as shown below.



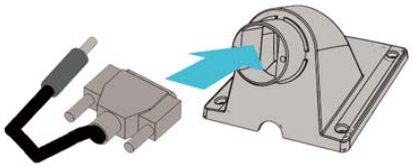
4. Remove the film on the back of the plastic spacer (item **E.**); and then stick the spacer to the base bracket (item **F.**) as shown.
   Feed the blue connector of the VGA cable (item **I.**) through the base bracket.



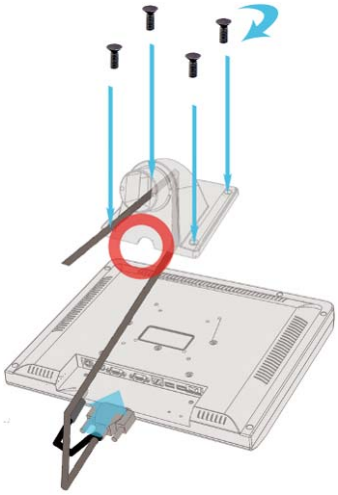
5. Connect heads of all the cables to the ports of the back I/O panel of the POS device.



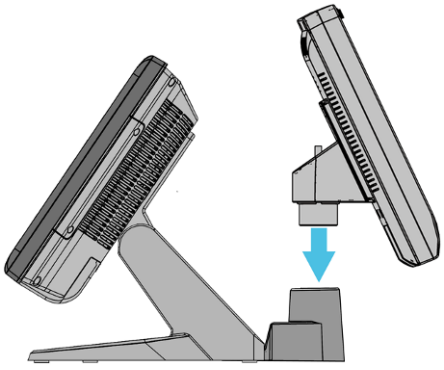
6. Feed the black head (with power connector) of the VGA cable through the 2nd display support (item **C.**).



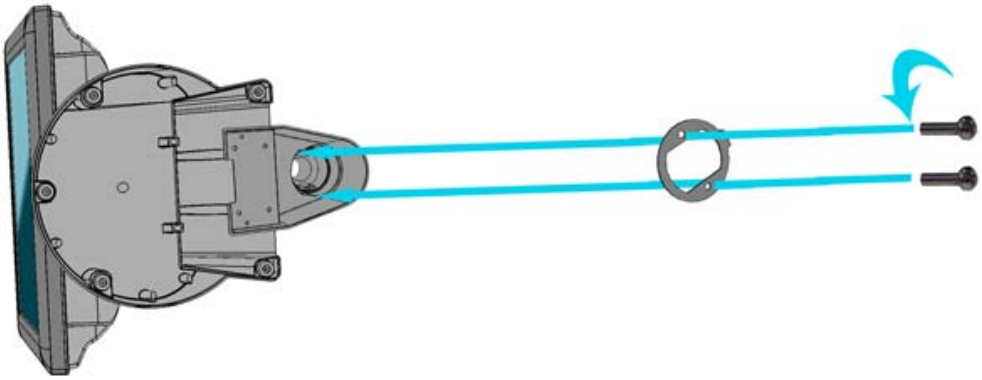
7. Connect the black head (with power connector) and the power connector of the VGA cable to the VGA port and power input jack of the back I/O panel of the 2nd display, and then tighten the four M3 screws to fix the 2nd display support onto the 2nd display as shown below.



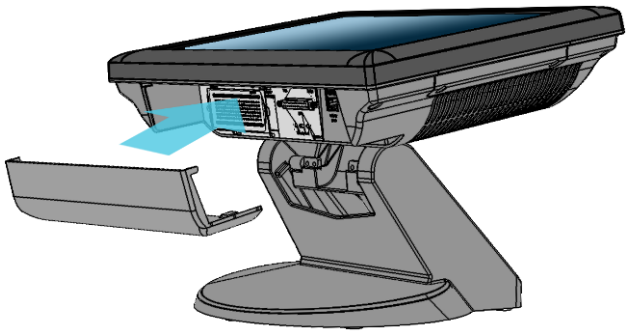
8. Insert the 2nd display onto the base of the device.



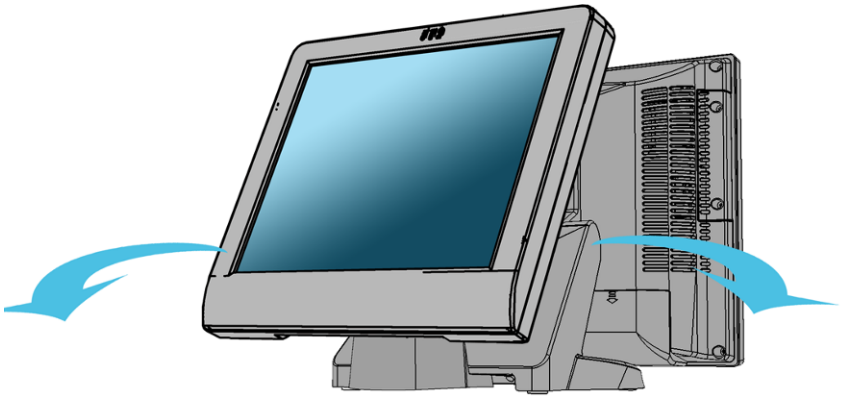
9. Push the base holder bracket into the base, and then tighten the two M4 screws to fix the 2nd display.



10. Install the IO panel cover onto the device.

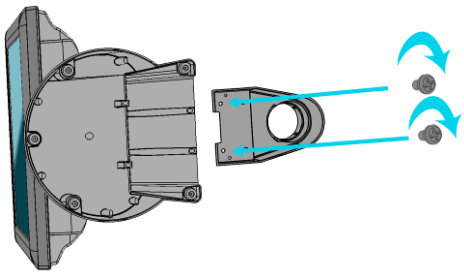


11. Finished. Now you can adjust the horizontal angle of the 2nd display.

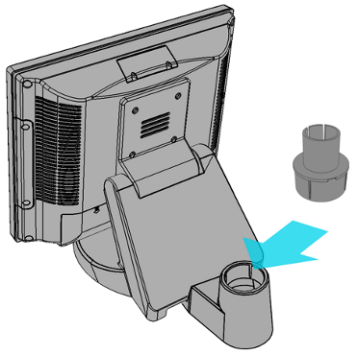


Pole Type 2nd Display Kit Installation:

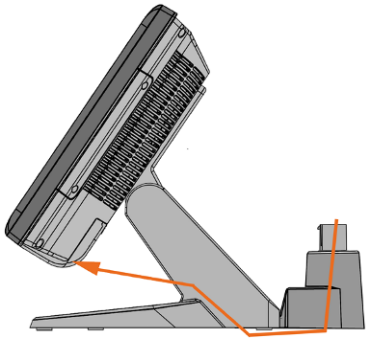
1. Install the 2nd display base (item **D.**) onto the X-POS950 by M4 screw X 2 (Item **I.**) as shown.



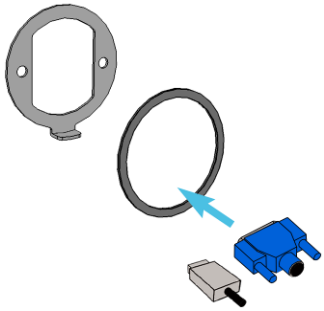
2. Insert the plastic bush into the base as shown.



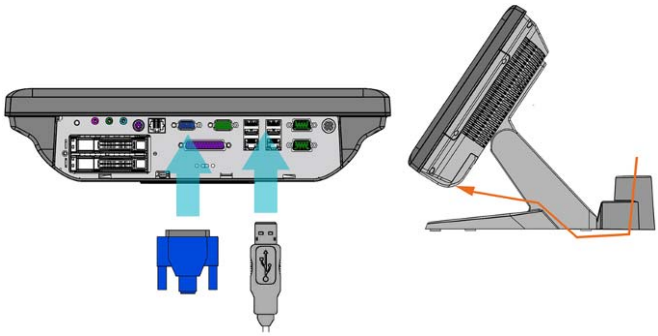
3. Feed the Type A USB connector of the USB cable (item **K.**) or the blue connector of the VGA cable (item **L.**) through the base of the device as shown below.



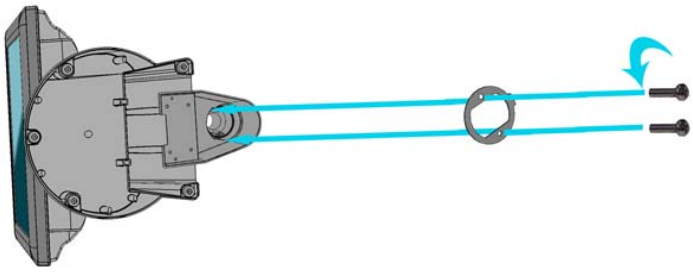
4. Remove the film on the back of the plastic spacer (item **H.**); and then stick the spacer to the base bracket (item **G.**) as shown.
   Feed the Type A USB connector of the USB cable (item **K.**) or the blue connector of the VGA cable (item **L.**) through the base bracket.



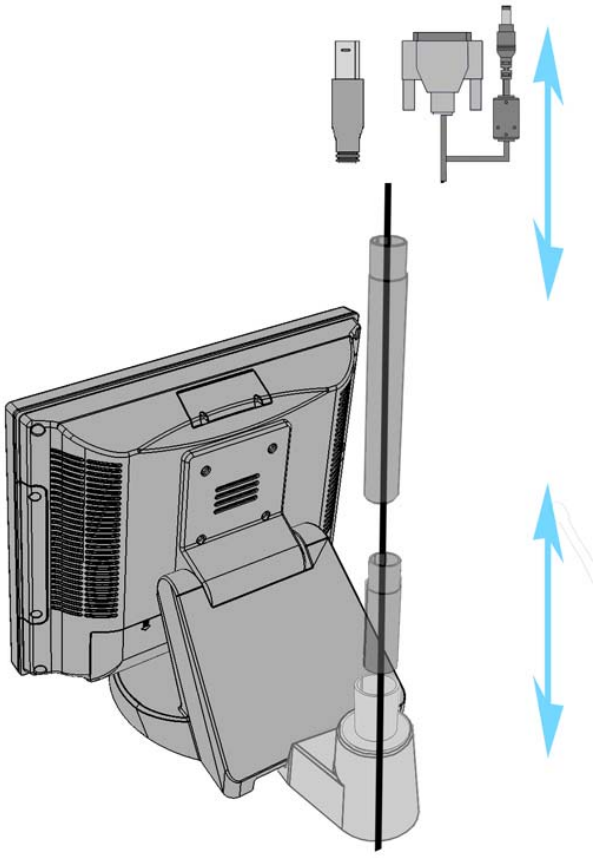
5. Connect the Type A USB connector of the USB cable (item **K.**) or the blue connector of the VGA cable (item **L.**) to the ports of the back I/O panel of the POS device.



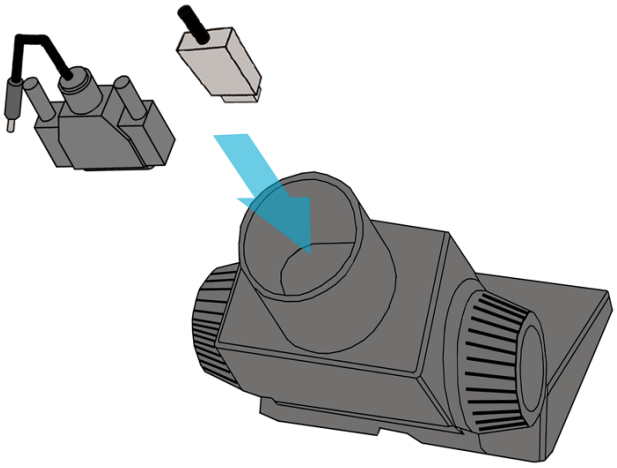
6. Push the base holder bracket into the base, and then tighten the two M4 screws to fix the 2nd display.



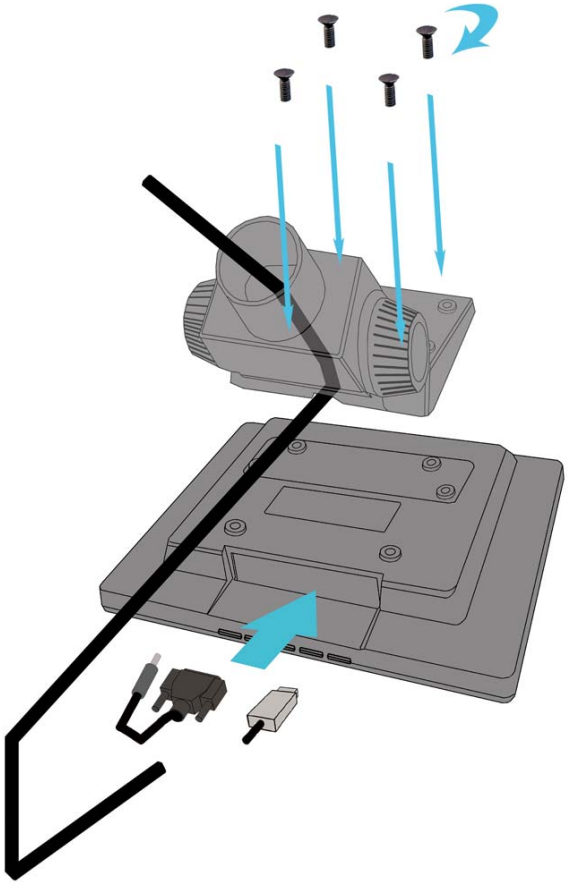
7. Feed the Type B USB connector of the USB cable (item **K.**) or the black connector of the VGA cable (with power connector) (item **L.**) through plastic poles (item **E.** and **F.**) and install the plastic poles as shown below.



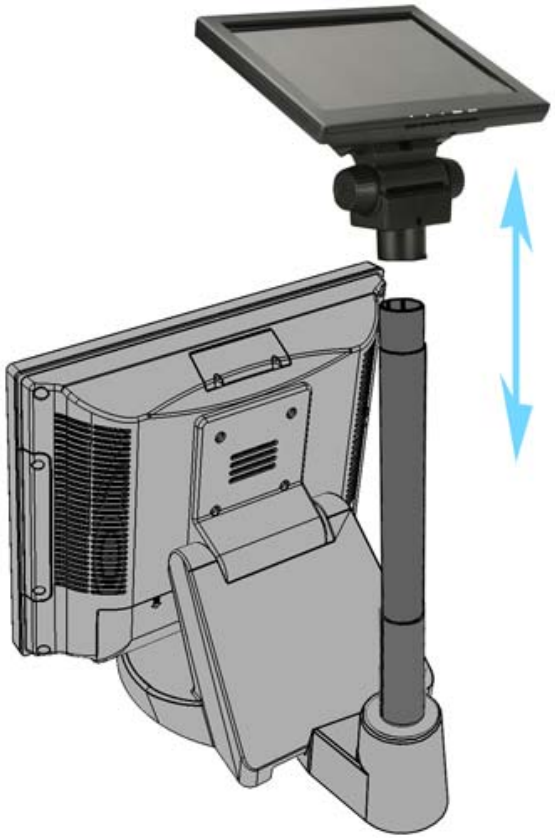
8. Feed the Type B USB connector of the USB cable (item **K.**) or the black connector of the VGA cable (with power connector) (item **L.**) through the 2nd Display Mount (item **B.**).



9. Connect the Type B USB connector of the USB cable (item **K.**) or the black connector of the VGA cable (with power connector) (item **L.**) to the proper port of the back I/O panel of the 2nd display, and then tighten the four M3 screws to fix the 2nd display mount onto the 2nd display as shown below.

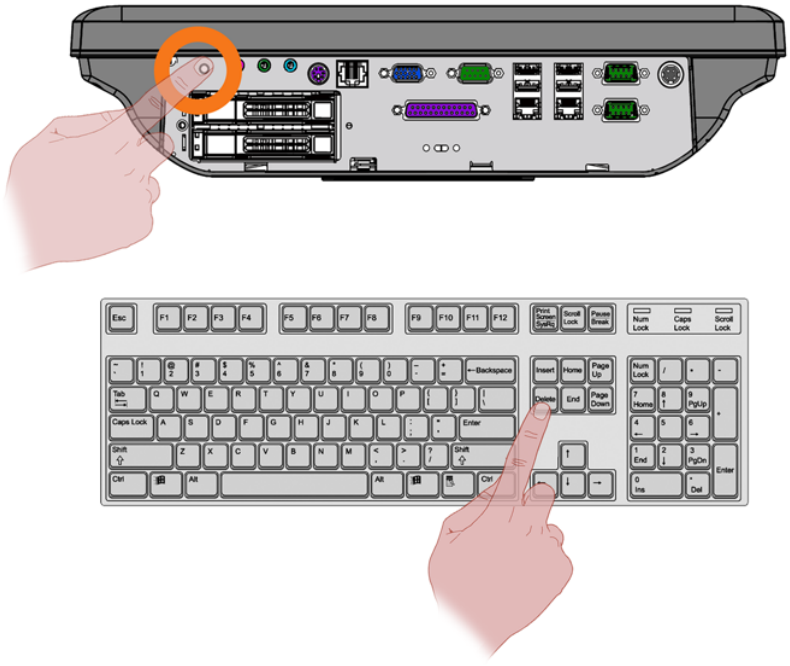


10. Install the 2nd display assembly as shown.

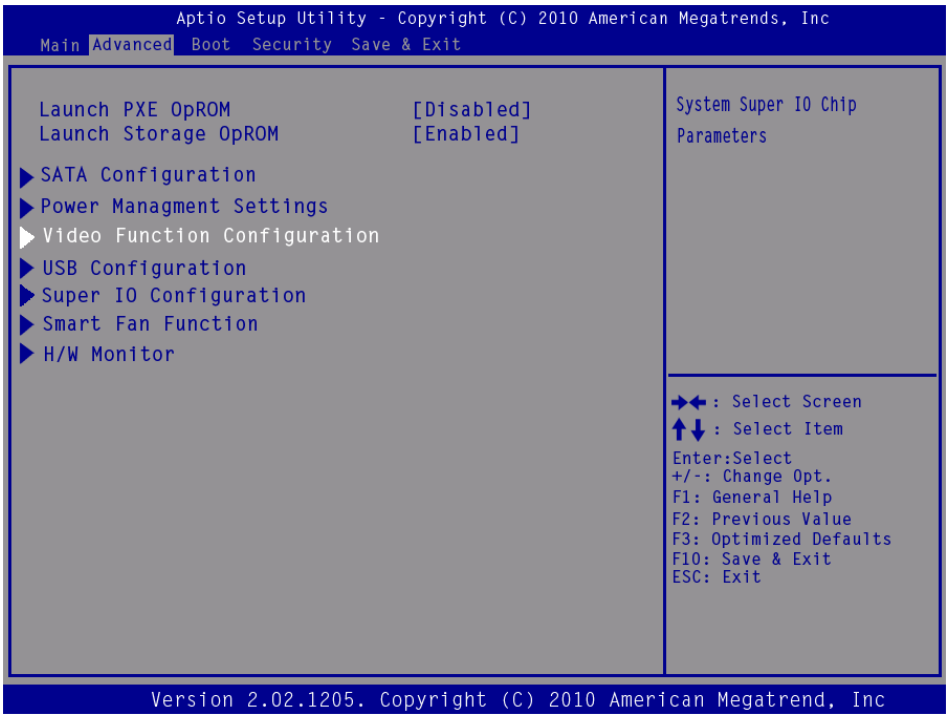


2nd Display Power Supply Configuration

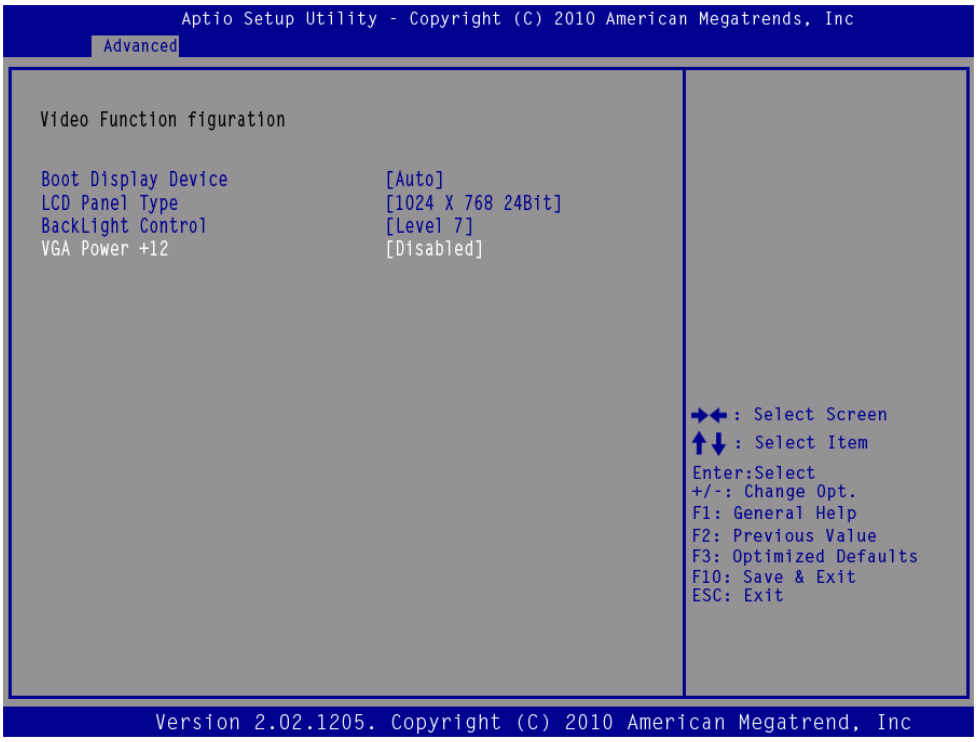
1. Power up the **X-POS 950**, and press the **DEL** key to enter BIOS before the Windows screen appear.



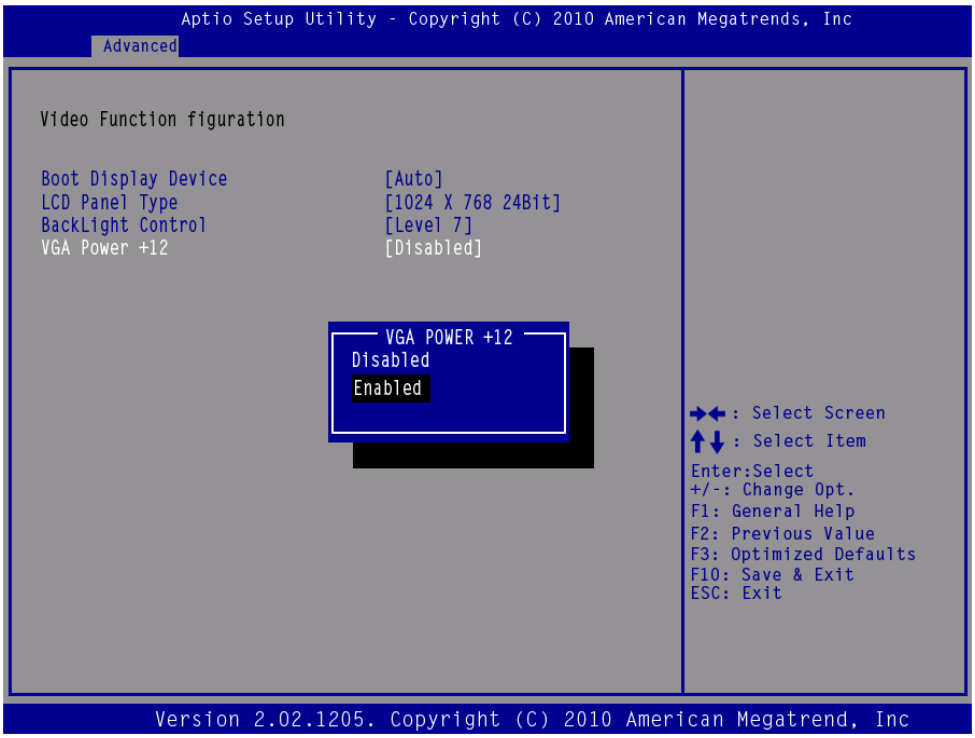
2. Under BIOS screen, use the ➡ or ⬅ key on your computer keyboard to move to the **Advanced** tab, and then use the ⬆ or ⬇ key on your computer keyboard to select **Video Function Configuration** then press **ENTER** key.



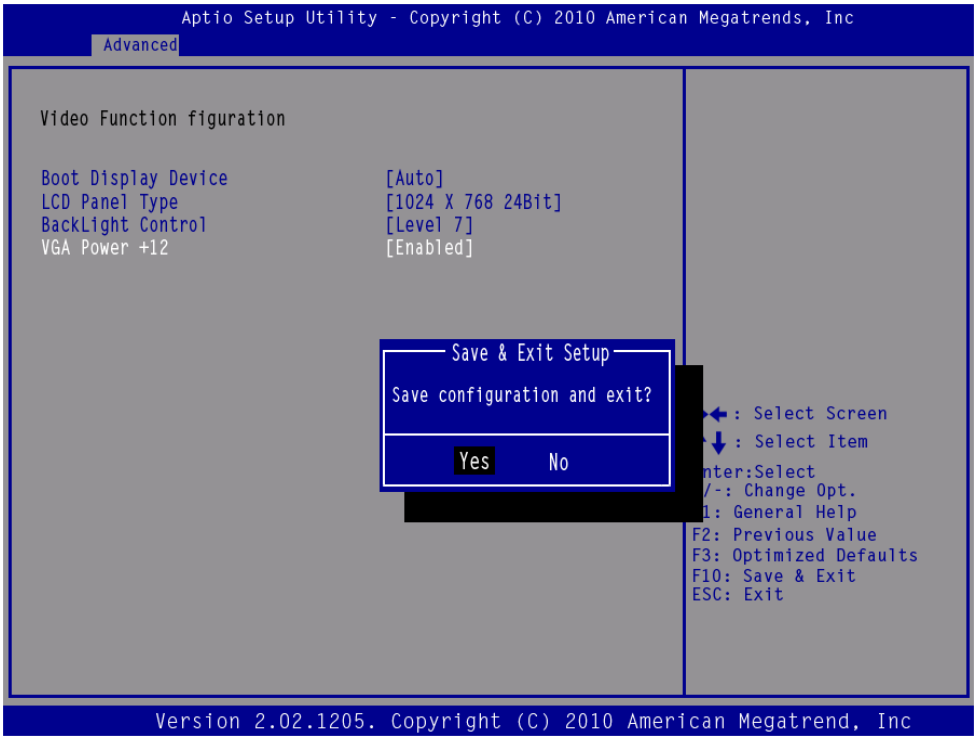
3. Use the ⬆ or ⬇ key to highlight the **VGA Power +12**, and the press **ENTER** key.



4. Use the ⬆ or ⬇ key to highlight **Enabled** and press **ENTER** key.

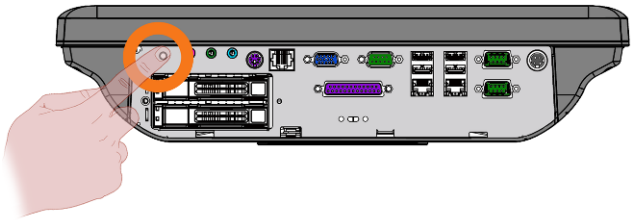


5. Press **F10** key, highlight **Yes** and press **ENTER** key.

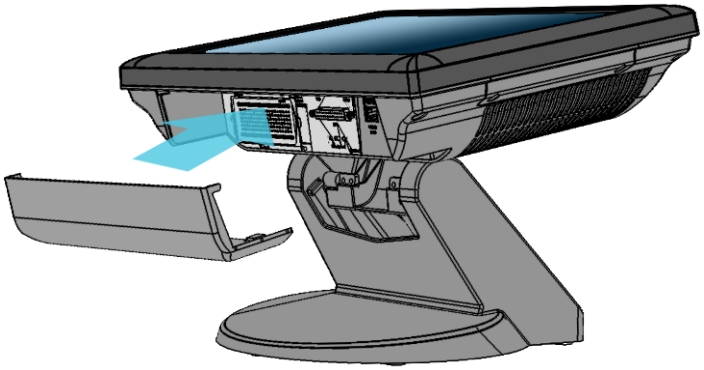


1.4. Turn on the device

1. Make sure all peripherals are connected properly.
2. Press and hold the power switch until the power indicator on the front panel glows green.



3. Install the cable cover.



2.

RAID Configuration

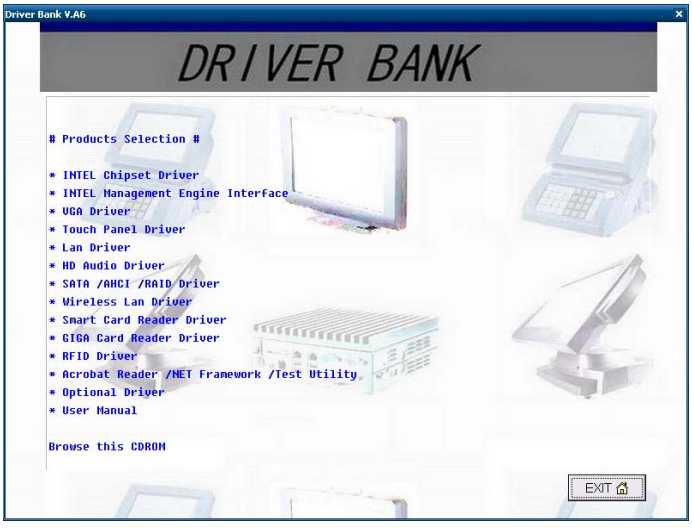
RAID configuration must be done before the Windows operating system (Windows 7 excluded) installation.

Before the steps below starts, make sure that an external USB DVD-ROM drive with the Windows installation disc loaded, an external USB floppy disc drive and other accessories are all connected to the **X-POS 950** properly.

1. On a personal computer, insert the **Driver and Utility DVD** into the DVD-ROM drive and insert a 3.5” floppy into the floppy disk.

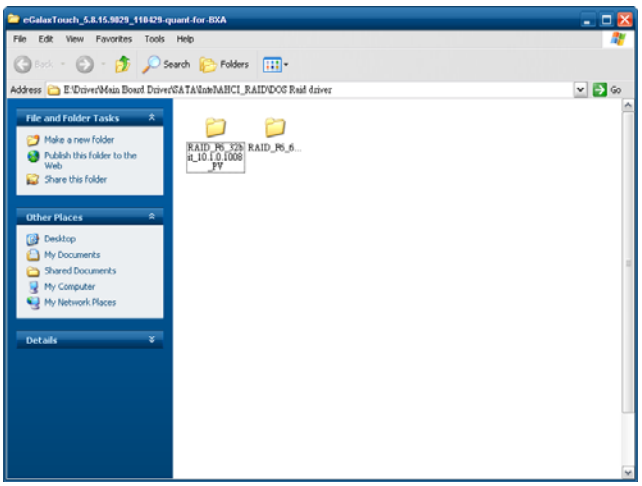
2. On the **DRIVER BANK** screen, click **X-POS 950 Series** to enter the driver selection screen.

3. On the driver selection screen, click **SATA/ AHCI/ RAID Driver**.

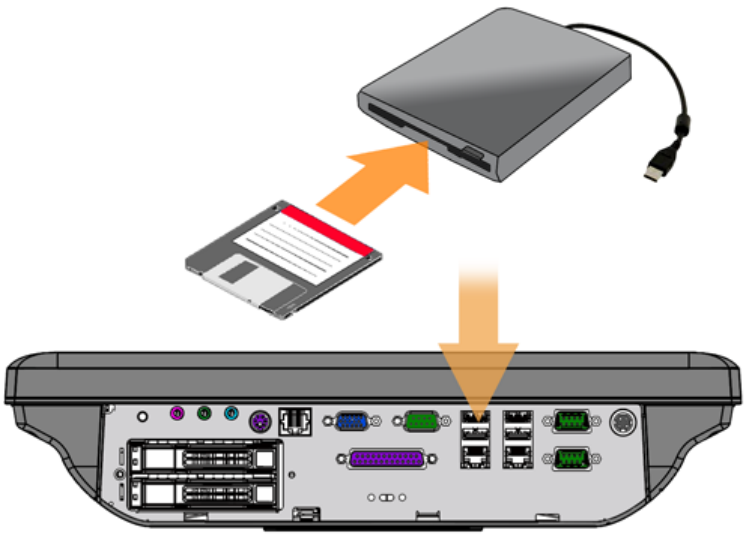


4. Click **AHCI/RAID Driver for DOS**.

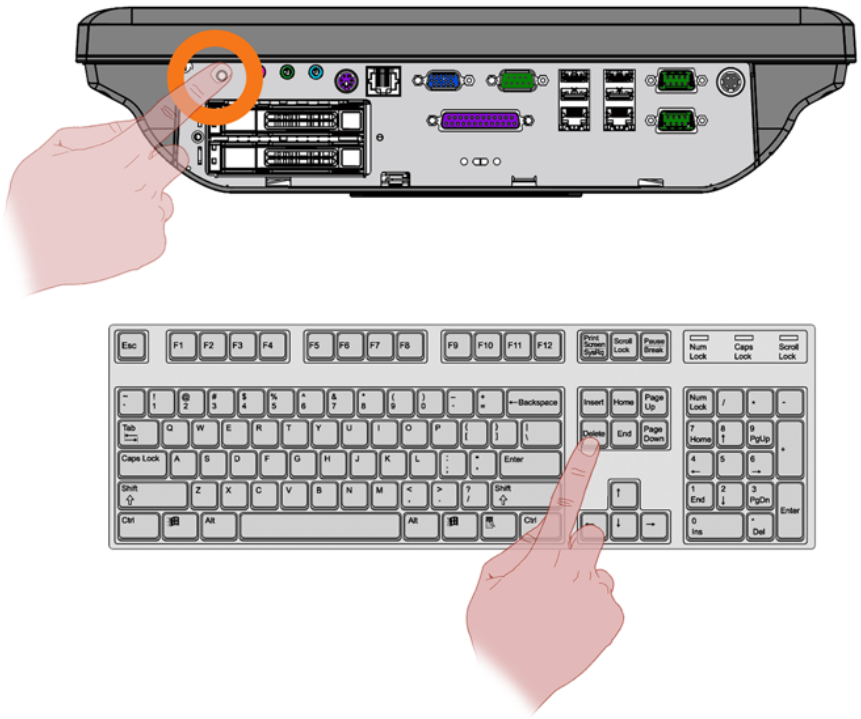
5. A Windows Explore window pops-up. There are two folders: "**RAID_F6_32bit_10.1.0.1008_PV**" and "**RAID_F6_64bit_10.1.0.1008_PV**". Copy a folder into the floppy disc according to the Windows operating system you choose to install.



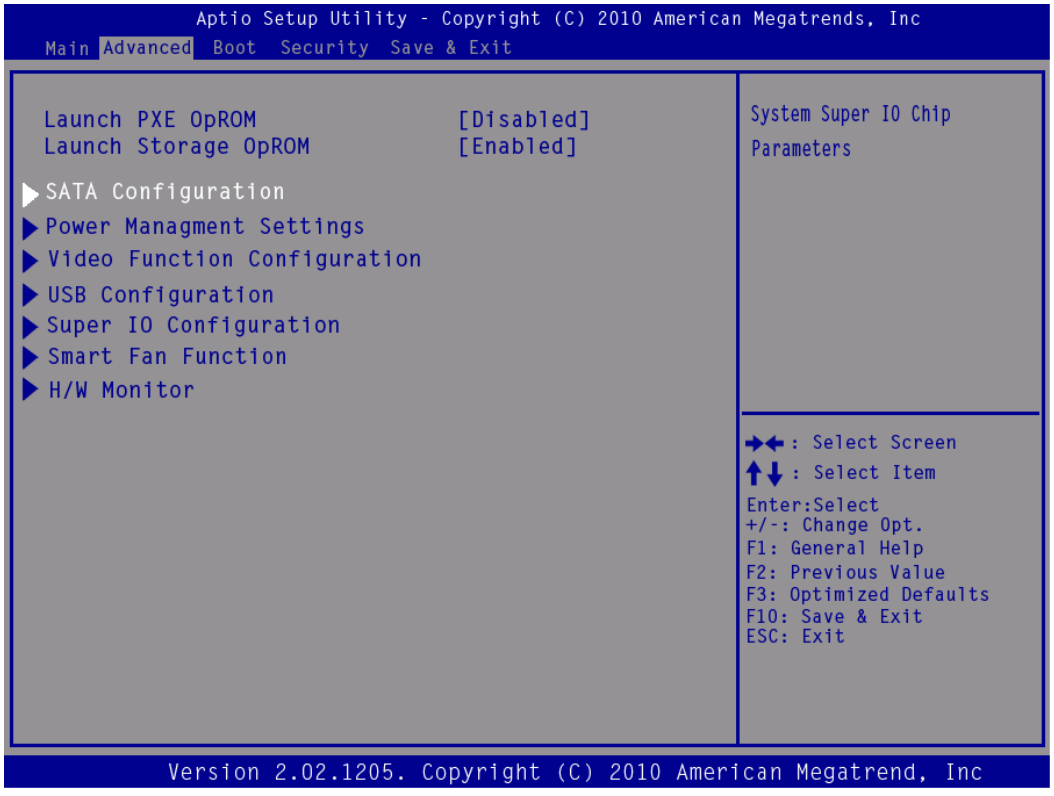
6. Eject the 3.5" floppy disk and insert it into the USB floppy disk drive which is connected to the **X-POS 950**.



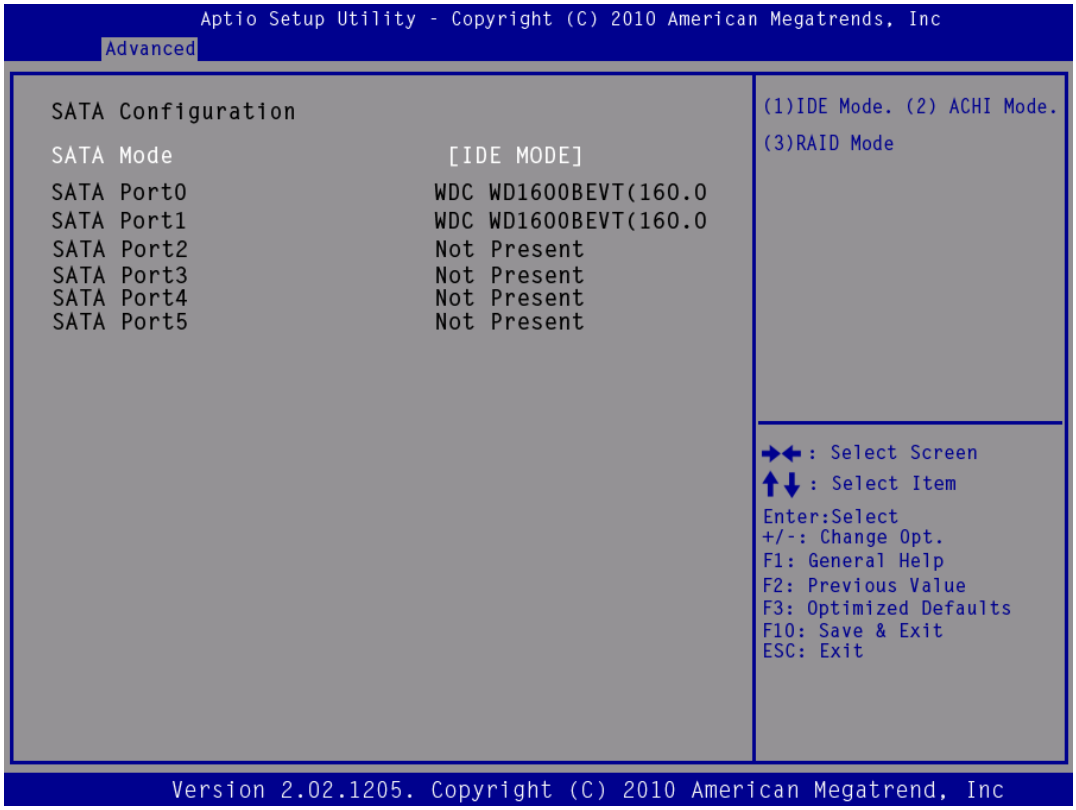
7. Power up the **X-POS 950**, and press the **DEL** key of the external computer keyboard to enter BIOS before the Windows screen appear.



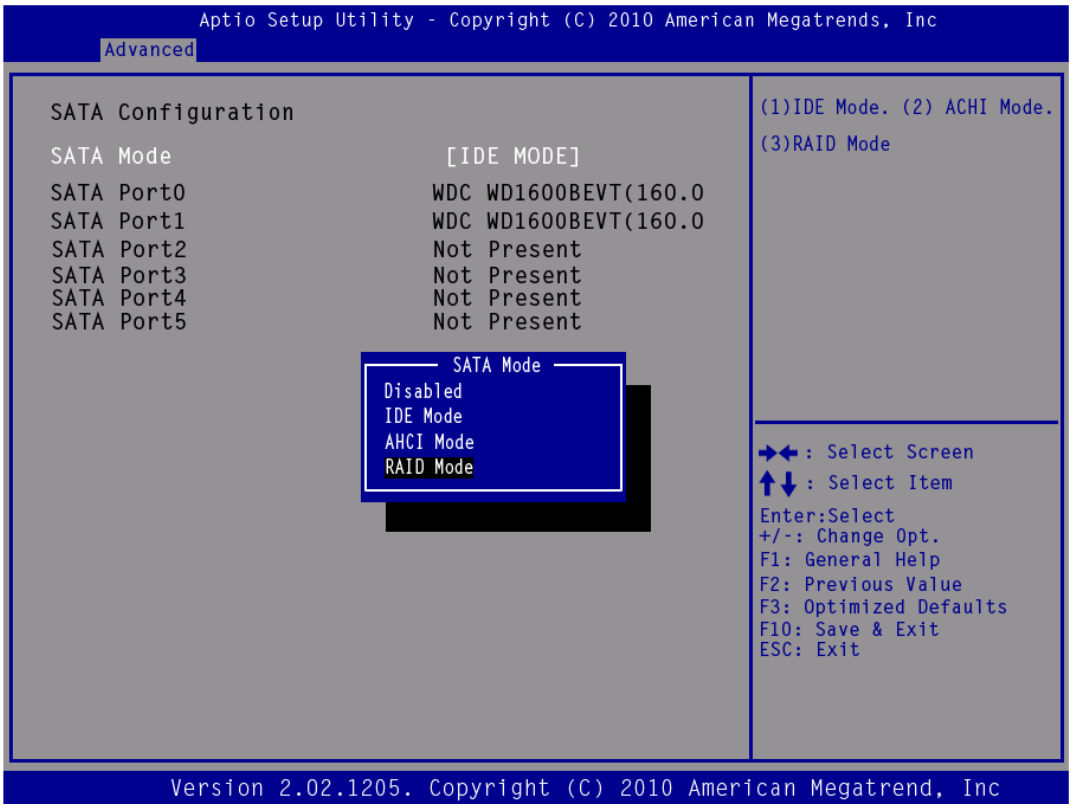
8. Under BIOS screen, use the ➡ or ⬅ key on your external computer keyboard to move to the **Advanced** tab, and then use the ⬆ or ⬇ key on your computer keyboard to highlight **SATA Configuration** and then press the **ENTER** key.



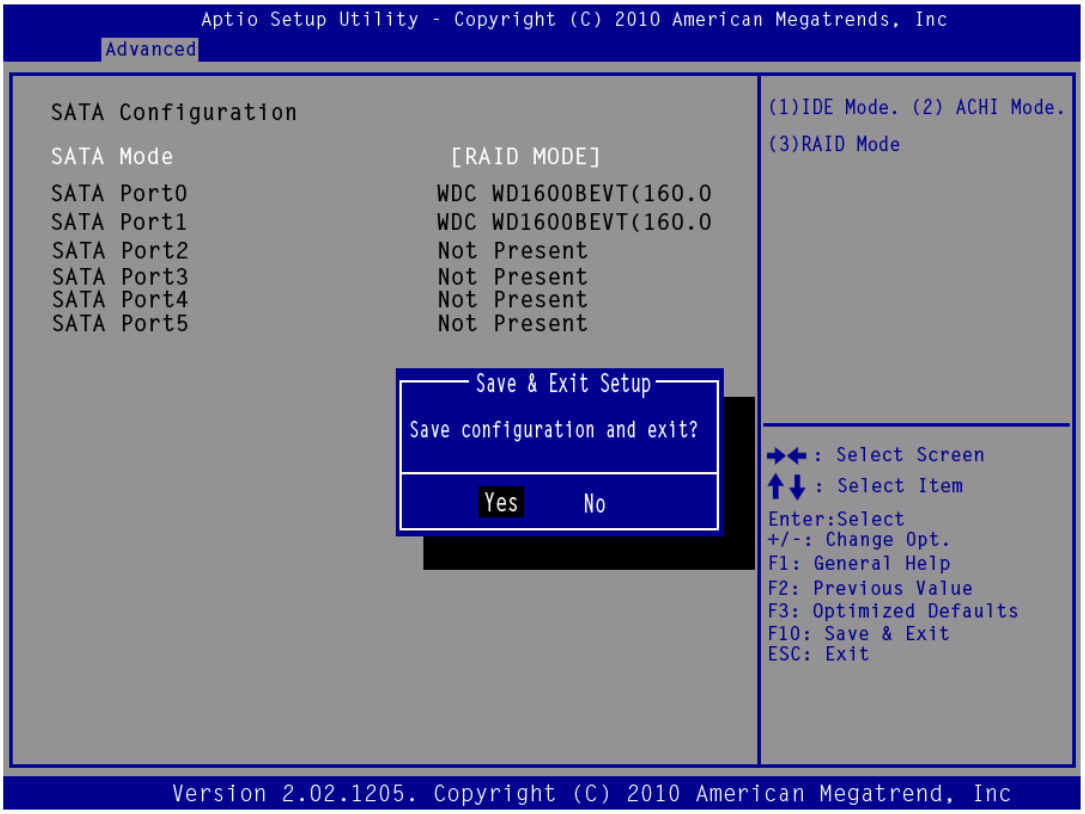
9. Under **Advance** tab, highlight **SATA Mode** and then press the **ENTER** key of the external computer keyboard.



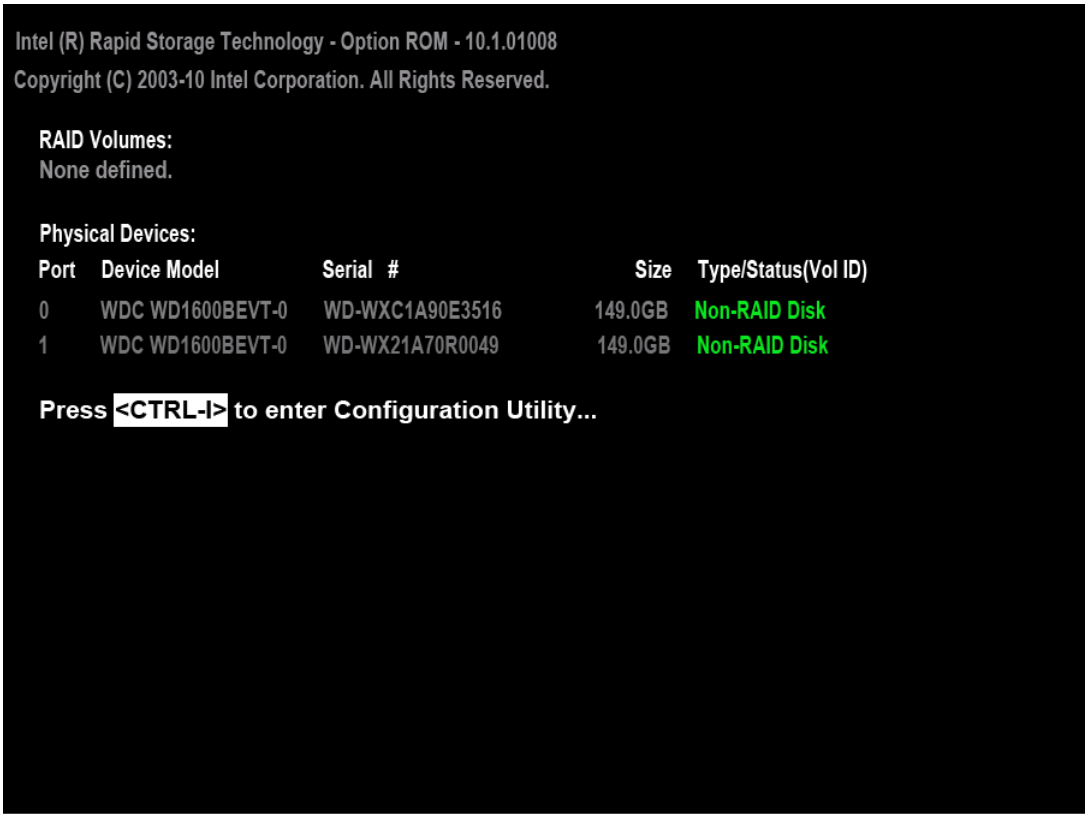
10. Select **RAID Mode** or **AHCI Mode** according to your application, and then press the **ENTER** key of the external computer keyboard.



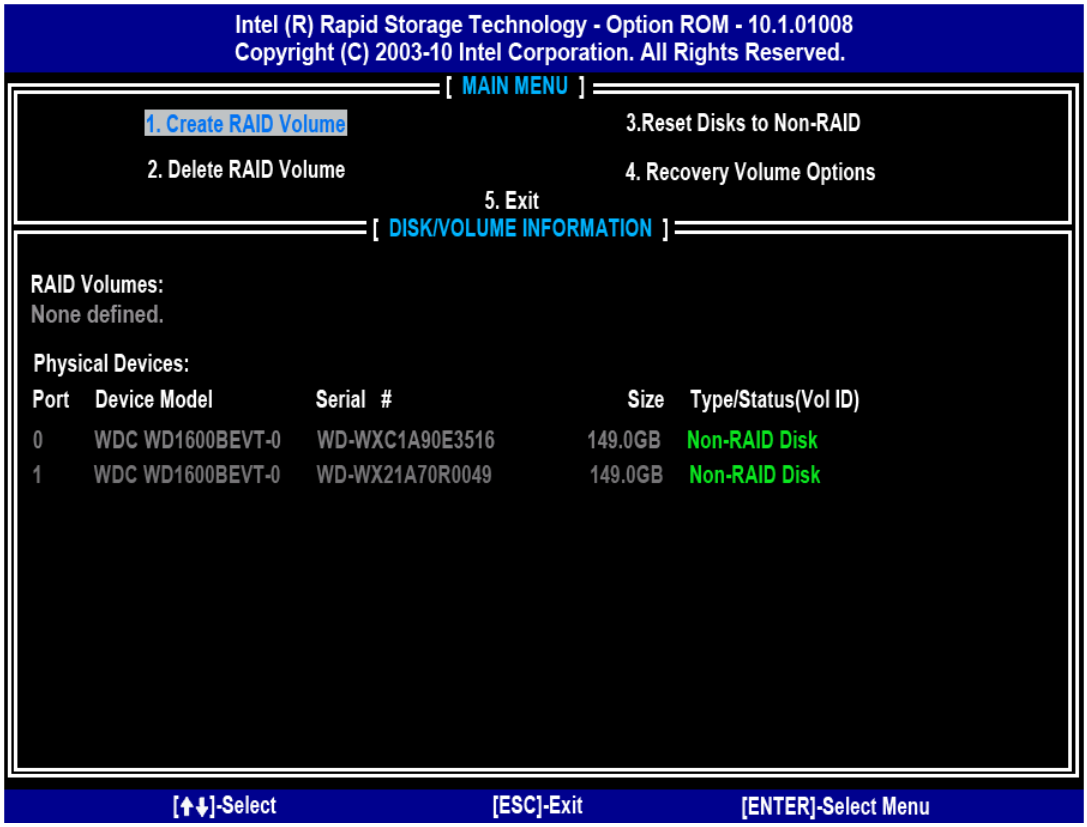
11. Press the **F10** key of the external computer keyboard, select **Yes** and then press the **ENTER** key of the external computer keyboard.



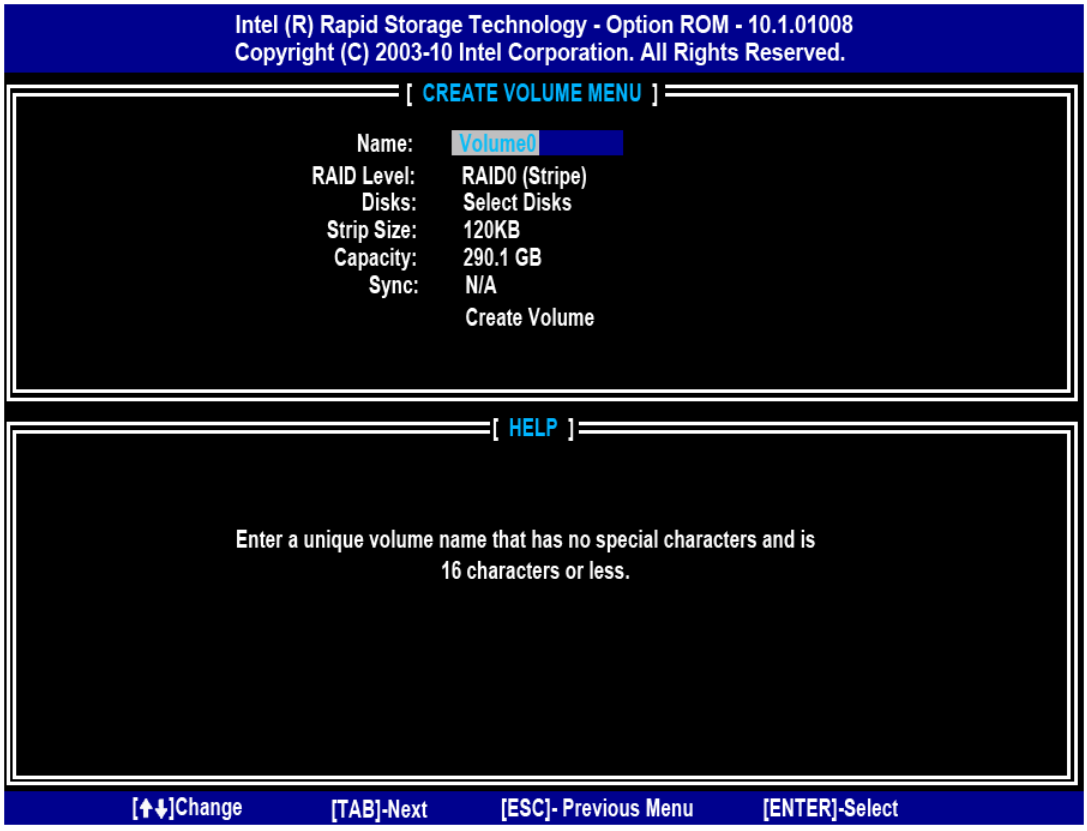
12. The screen below shows, press the **CTRL** key and **I** key of the external computer keyboard simultaneously.


Intel (R) Rapid Storage Technology - Option ROM - 10.1.01008
Copyright (C) 2003-10 Intel Corporation. All Rights Reserved.
RAID Volumes:
None defined.
Physical Devices:
Port Device Model Serial # Size Type/Status(Vol ID)
0 WDC WD1600BEVT-0 WD-WXC1A90E3516 149.0GB Non-RAID Disk
1 WDC WD1600BEVT-0 WD-WX21A70R0049 149.0GB Non-RAID Disk
Press <CTRL-I> to enter Configuration Utility...

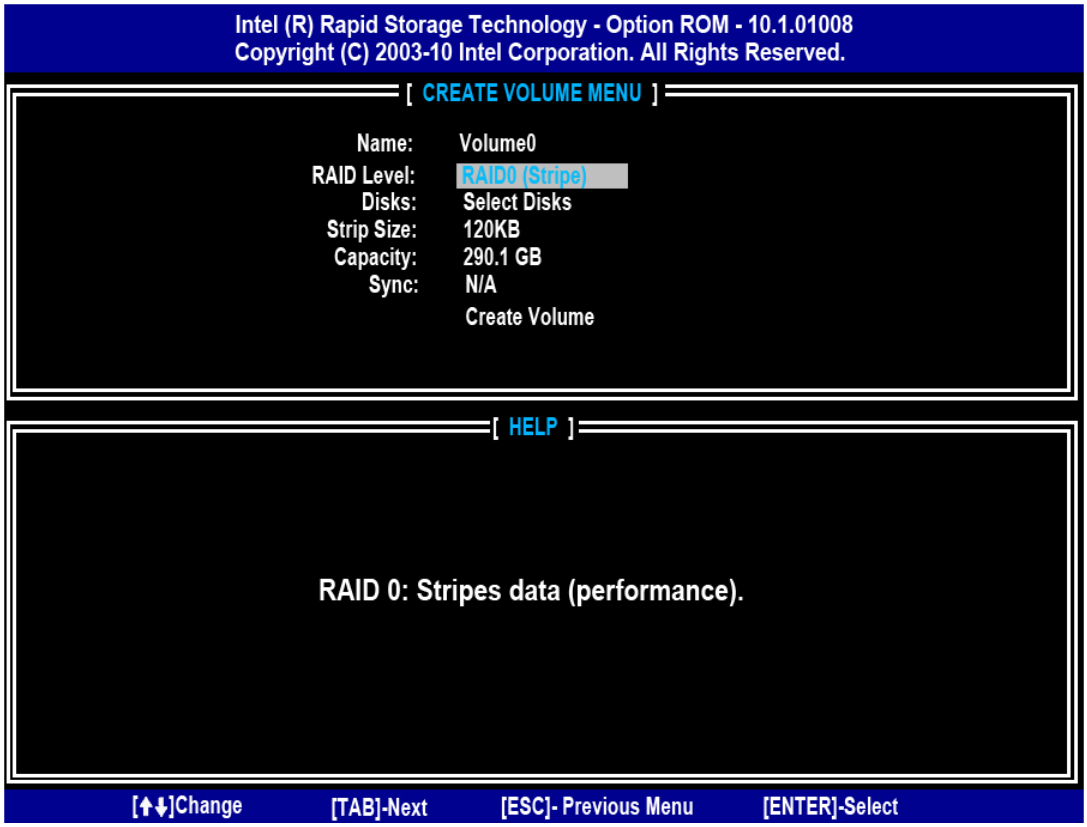
13. Under the **MAIN MENU**, select **Create RAID Volume** and then press **ENTER** key of the external computer keyboard.


Intel (R) Rapid Storage Technology - Option ROM - 10.1.01008
Copyright (C) 2003-10 Intel Corporation. All Rights Reserved.
[MAIN MENU]
1. Create RAID Volume
2. Delete RAID Volume
3.Reset Disks to Non-RAID
4. Recovery Volume Options
5. Exit
[DISK/VOLUME INFORMATION]
RAID Volumes:
None defined.
Physical Devices:
Port Device Model Serial # Size Type/Status(Vol ID)
0 WDC WD1600BEVT-0 WD-WXC1A90E3516 149.0GB Non-RAID Disk
1 WDC WD1600BEVT-0 WD-WX21A70R0049 149.0GB Non-RAID Disk
[↑↓]-Select
[ESC]-Exit
[ENTER]-Select Menu

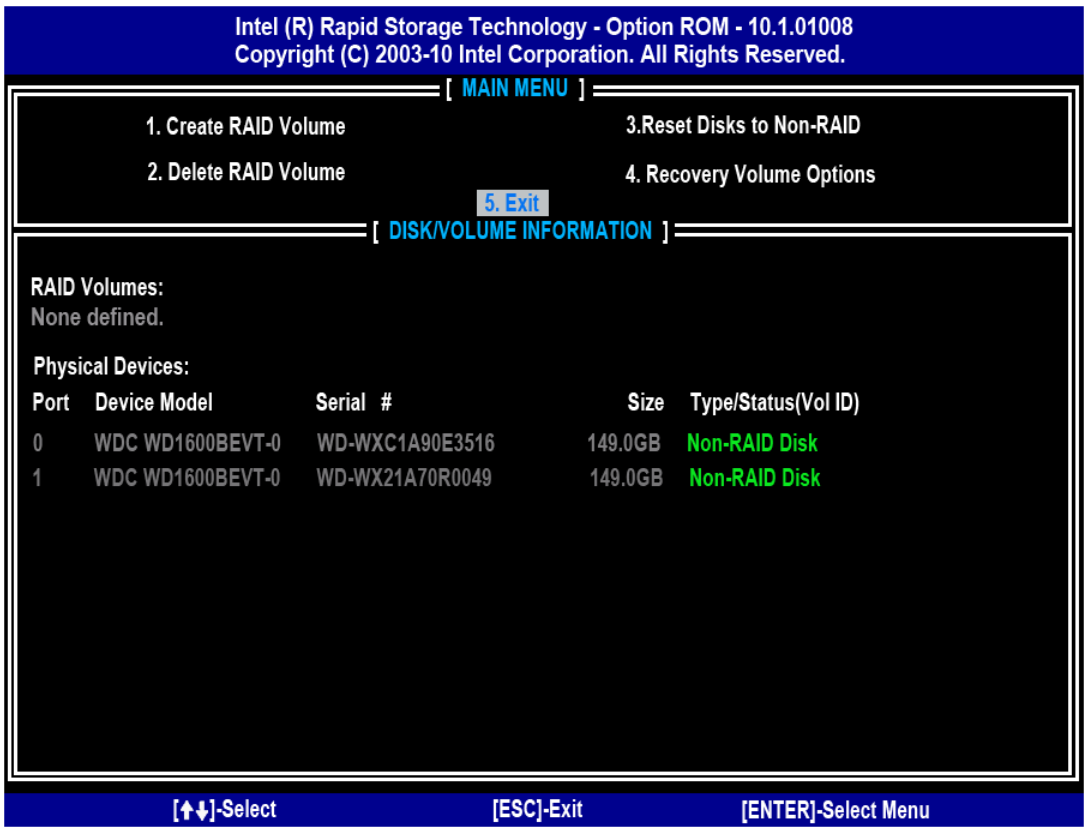
14. Under the **CREATE VOLUME MENU**, highlight the item **Name** to specify the volume name.



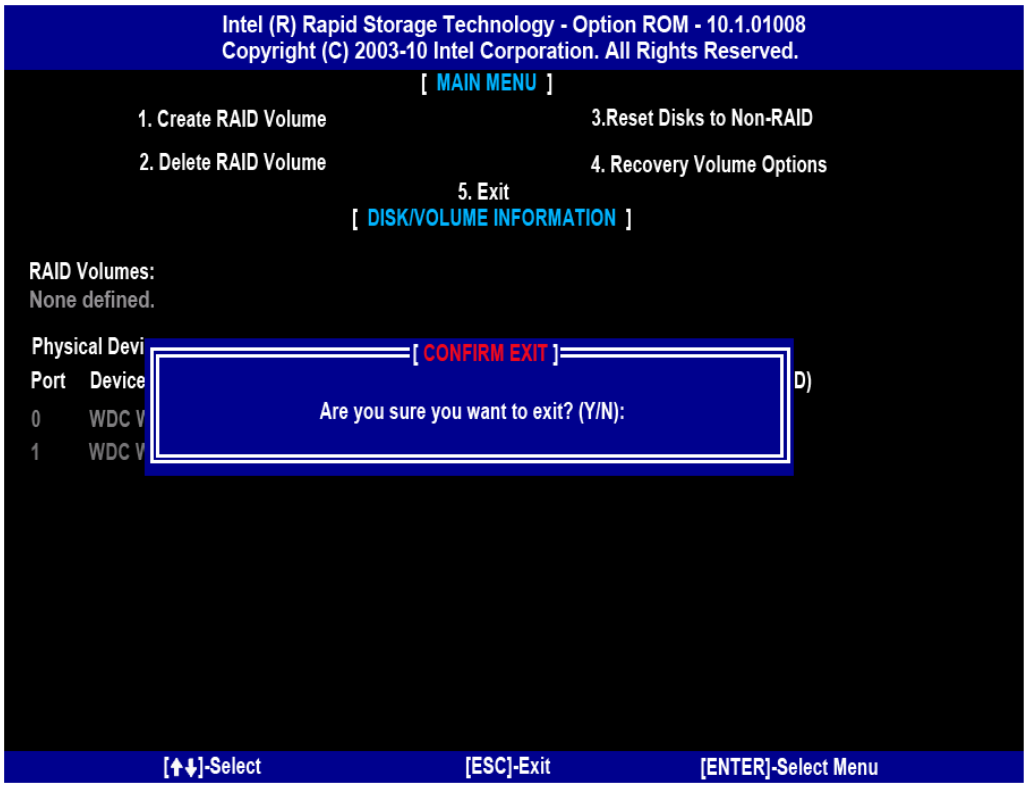
15. Highlight the item **RAID Level** to specify the RAID type (**RAID0** or **RAID1**).



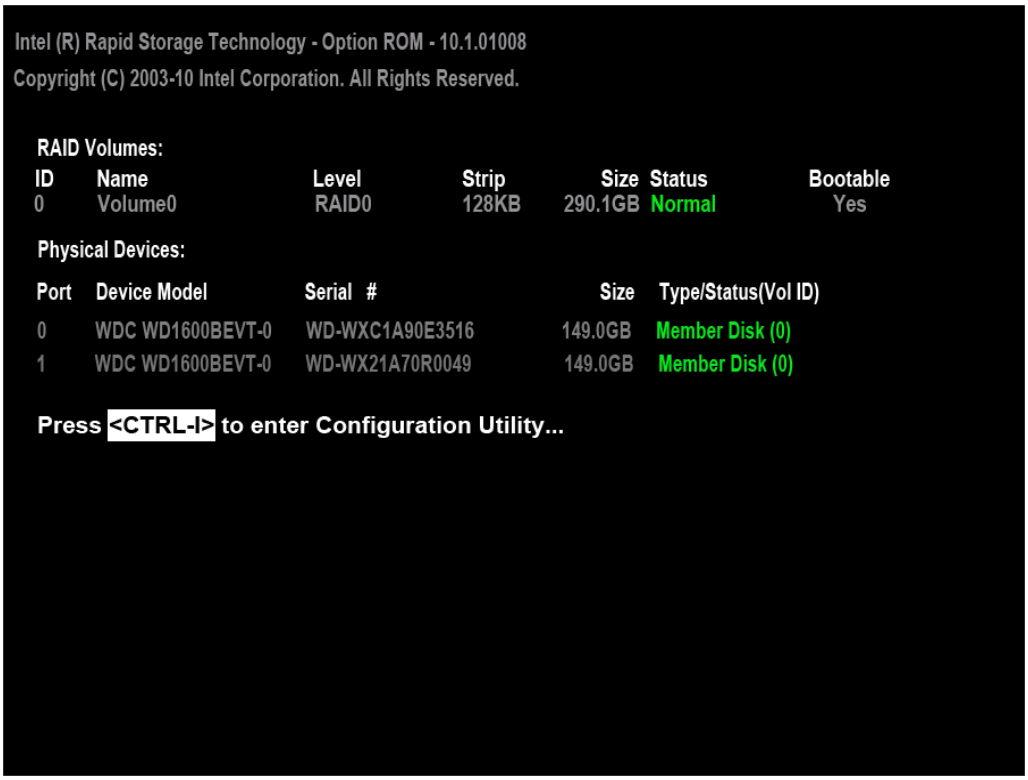
16. Back to the **MAIN MENU**, select **EXIT** and then press **ENTER** key of the external computer keyboard.


Intel (R) Rapid Storage Technology - Option ROM - 10.1.01008
Copyright (C) 2003-10 Intel Corporation. All Rights Reserved.
[MAIN MENU]
1. Create RAID Volume
2. Delete RAID Volume
3.Reset Disks to Non-RAID
4. Recovery Volume Options
5. Exit
[DISK/VOLUME INFORMATION]
RAID Volumes:
None defined.
Physical Devices:
Port Device Model Serial # Size Type/Status(Vol ID)
0 WDC WD1600BEVT-0 WD-WXC1A90E3516 149.0GB Non-RAID Disk
1 WDC WD1600BEVT-0 WD-WX21A70R0049 149.0GB Non-RAID Disk
[↑↓]-Select
[ESC]-Exit
[ENTER]-Select Menu

17. Press **Y** key of the external computer keyboard and then press **F11** key to enable the system to reboot by external optical disk drive.



18. The screen below shows and then switches to the Windows installation automatically.


Intel (R) Rapid Storage Technology - Option ROM - 10.1.01008
Copyright (C) 2003-10 Intel Corporation. All Rights Reserved.
RAID Volumes:
ID Name Level Strip Size Status Bootable
0 Volume0 RAID0 128KB 290.1GB Normal Yes
Physical Devices:
Port Device Model Serial # Size Type/Status(Vol ID)
0 WDC WD1600BEVT-0 WD-WXC1A90E3516 149.0GB Member Disk (0)
1 WDC WD1600BEVT-0 WD-WX21A70R0049 149.0GB Member Disk (0)
Press <CTRL-I> to enter Configuration Utility...

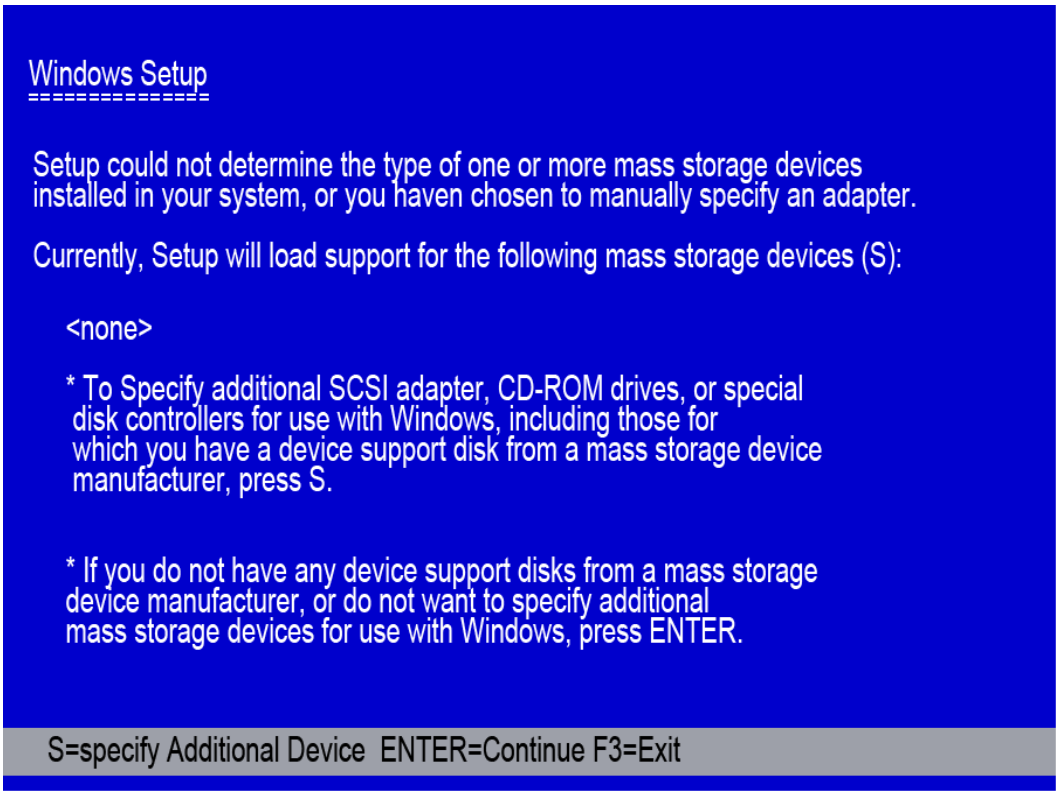
Steps below are variable based on the OS you had chosen.

2.1. For Microsoft Windows XP

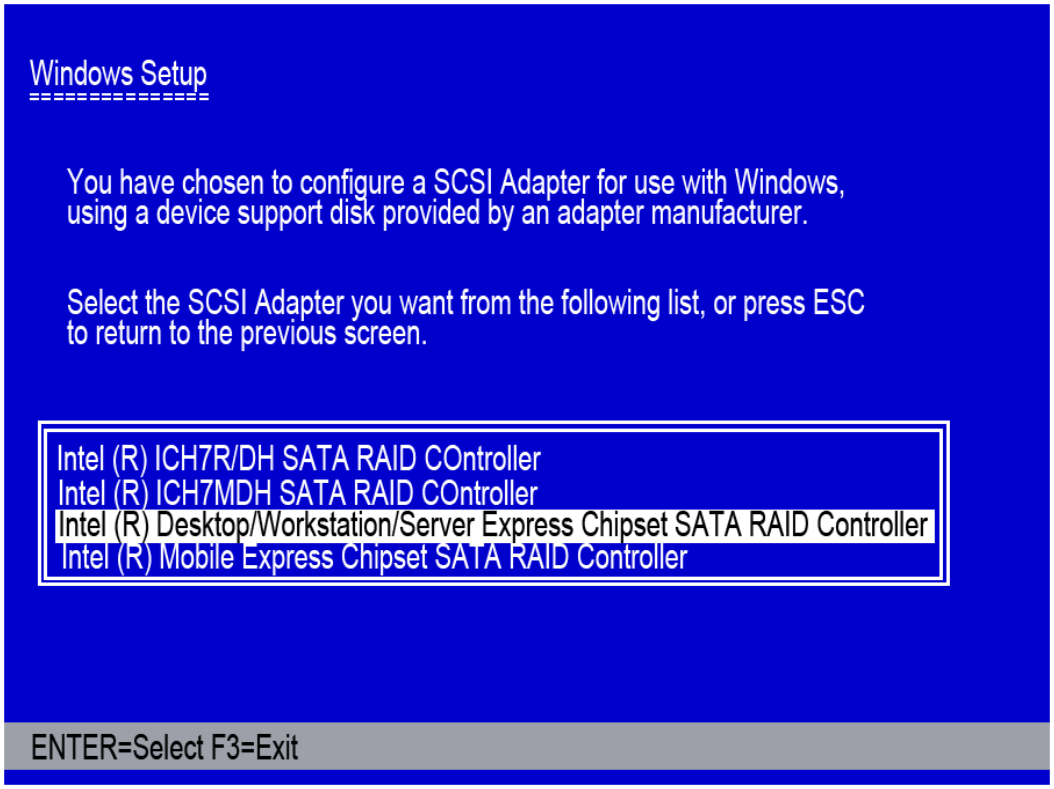
Steps described below are for Microsoft Windows XP series.

1. Press the **F6** key of the external computer keyboard as soon as the message on the gray bar shows.

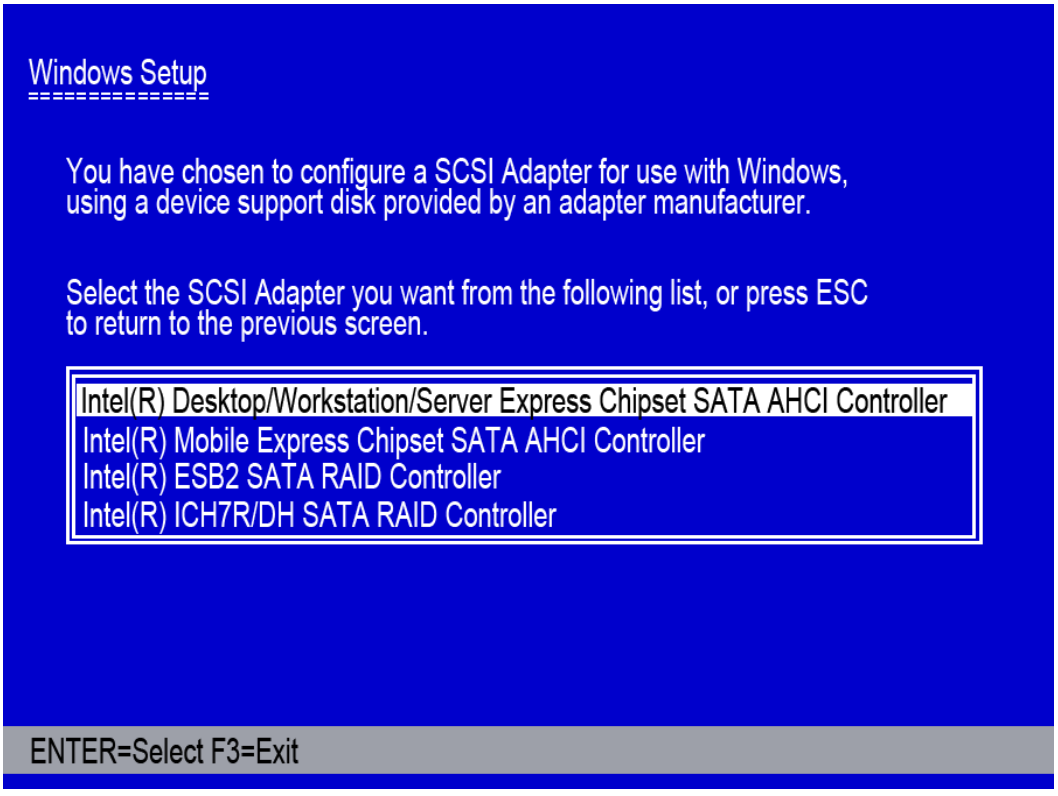
2. Press **S** key.


Windows Setup
Setup could not determine the type of one or more mass storage devices installed in your system, or you haven chosen to manually specify an adapter.
Currently, Setup will load support for the following mass storage devices (S):
<none>
* To Specify additional SCSI adapter, CD-ROM drives, or special disk controllers for use with Windows, including those for which you have a device support disk from a mass storage device manufacturer, press S.
* If you do not have any device support disks from a mass storage device manufacturer, or do not want to specify additional mass storage devices for use with Windows, press ENTER.
S=specify Additional Device ENTER=Continue F3=Exit

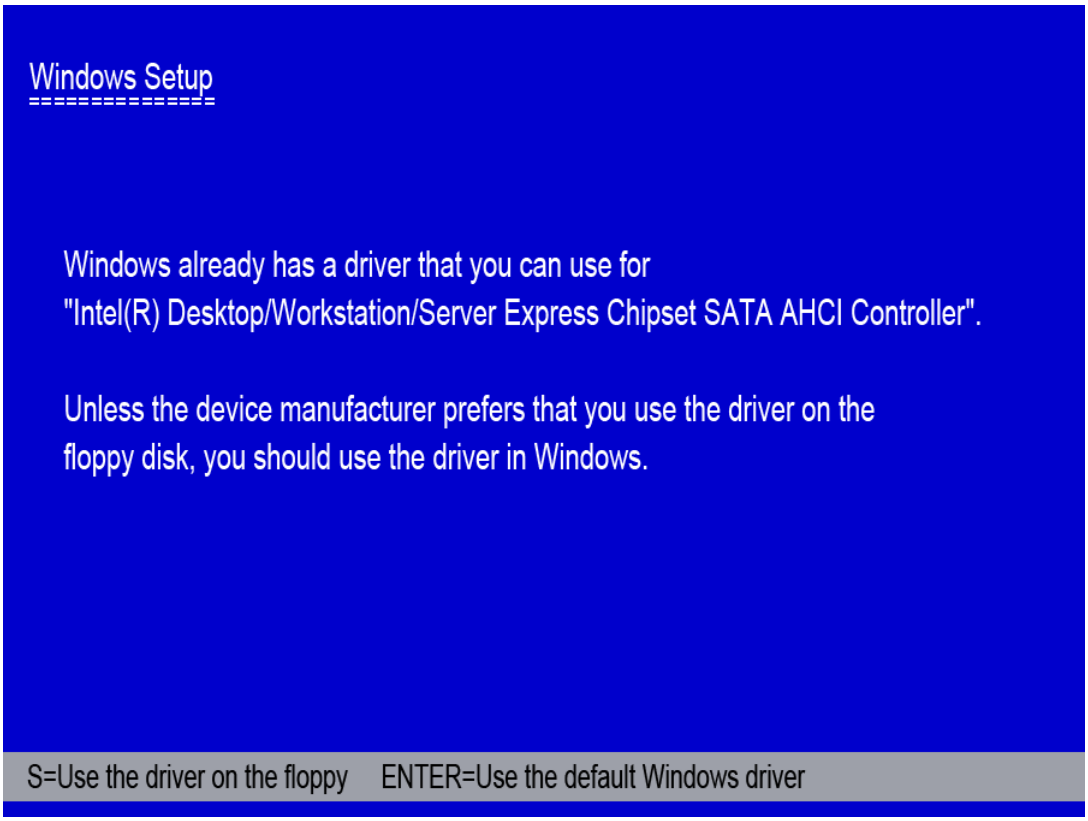
3. If “**RAID Mode**” is selected under the **SATA Configuration** in BIOS:
Use the ⬆ or ⬇ key to select **Intel (R) Desktop/Workstation/Server Express Chipset SATA RAID Controller**.


Windows Setup
You have chosen to configure a SCSI Adapter for use with Windows, using a device support disk provided by an adapter manufacturer.
Select the SCSI Adapter you want from the following list, or press ESC to return to the previous screen.
Intel (R) ICH7R/DH SATA RAID COntroller
Intel (R) ICH7MDH SATA RAID COntroller
Intel (R) Desktop/Workstation/Server Express Chipset SATA RAID Controller
Intel (R) Mobile Express Chipset SATA RAID Controller
ENTER=Select F3=Exit

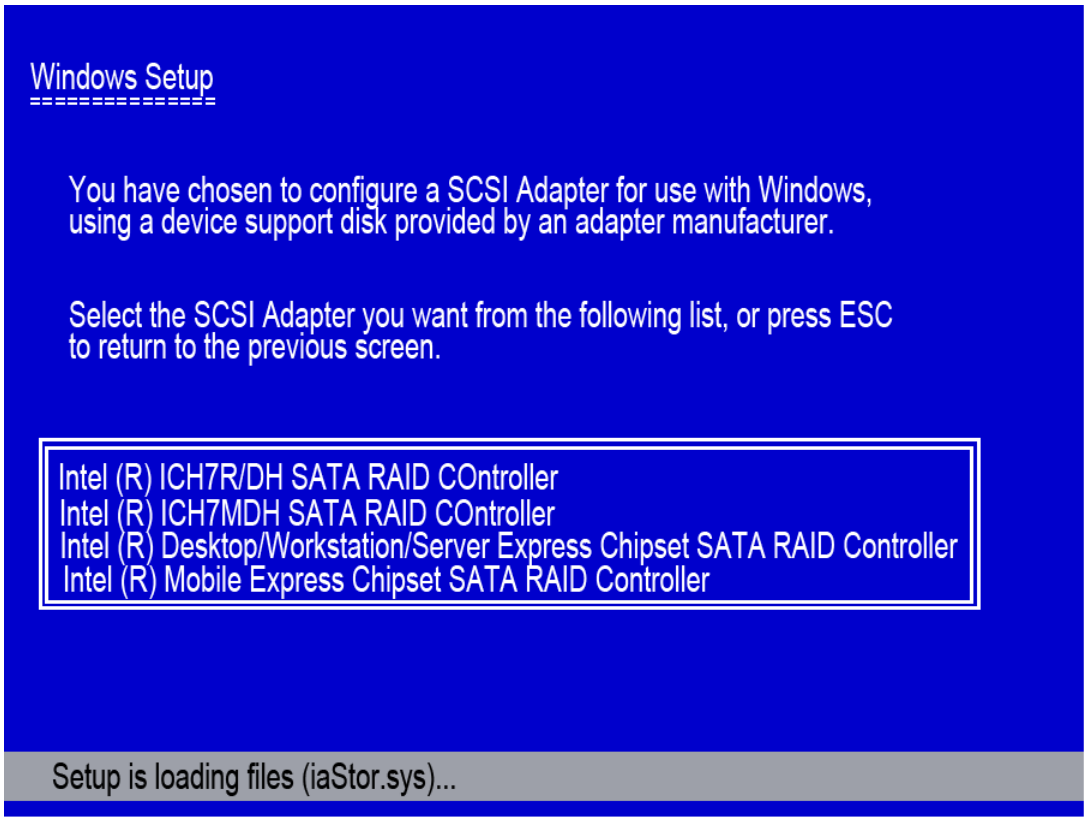
If “**AHCI Mode**” is selected under the **SATA Configuration** in BIOS:
Use the ⬆ or ⬇ key to select **Intel (R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller**.


Windows Setup
You have chosen to configure a SCSI Adapter for use with Windows, using a device support disk provided by an adapter manufacturer.
Select the SCSI Adapter you want from the following list, or press ESC to return to the previous screen.
Intel(R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller
Intel(R) Mobile Express Chipset SATA AHCI Controller
Intel(R) ESB2 SATA RAID Controller
Intel(R) ICH7R/DH SATA RAID Controller
ENTER=Select F3=Exit

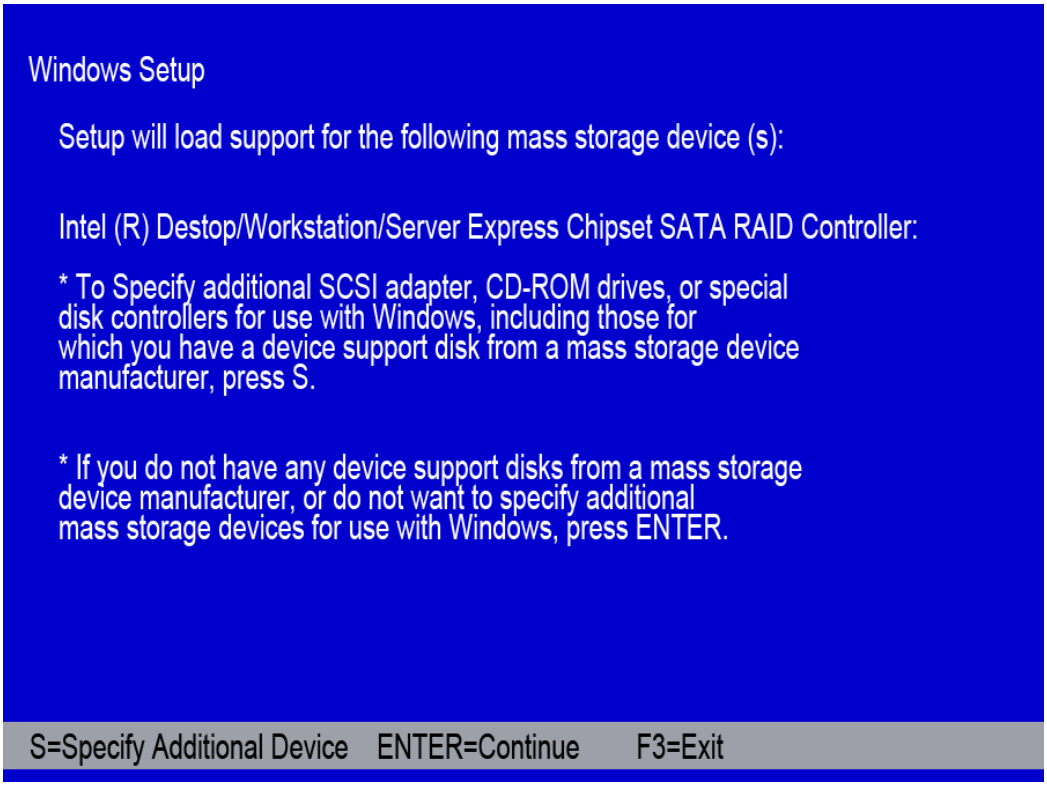
4. Press **S** key to continue.


Windows Setup
Windows already has a driver that you can use for
"Intel(R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller".
Unless the device manufacturer prefers that you use the driver on the
floppy disk, you should use the driver in Windows.
S=Use the driver on the floppy ENTER=Use the default Windows driver

5. Setup is loading files.


Windows Setup
You have chosen to configure a SCSI Adapter for use with Windows,
using a device support disk provided by an adapter manufacturer.
Select the SCSI Adapter you want from the following list, or press ESC
to return to the previous screen.
Intel (R) ICH7R/DH SATA RAID COntroller
Intel (R) ICH7MDH SATA RAID COntroller
Intel (R) Desktop/Workstation/Server Express Chipset SATA RAID Controller
Intel (R) Mobile Express Chipset SATA RAID Controller
Setup is loading files (iaStor.sys)...

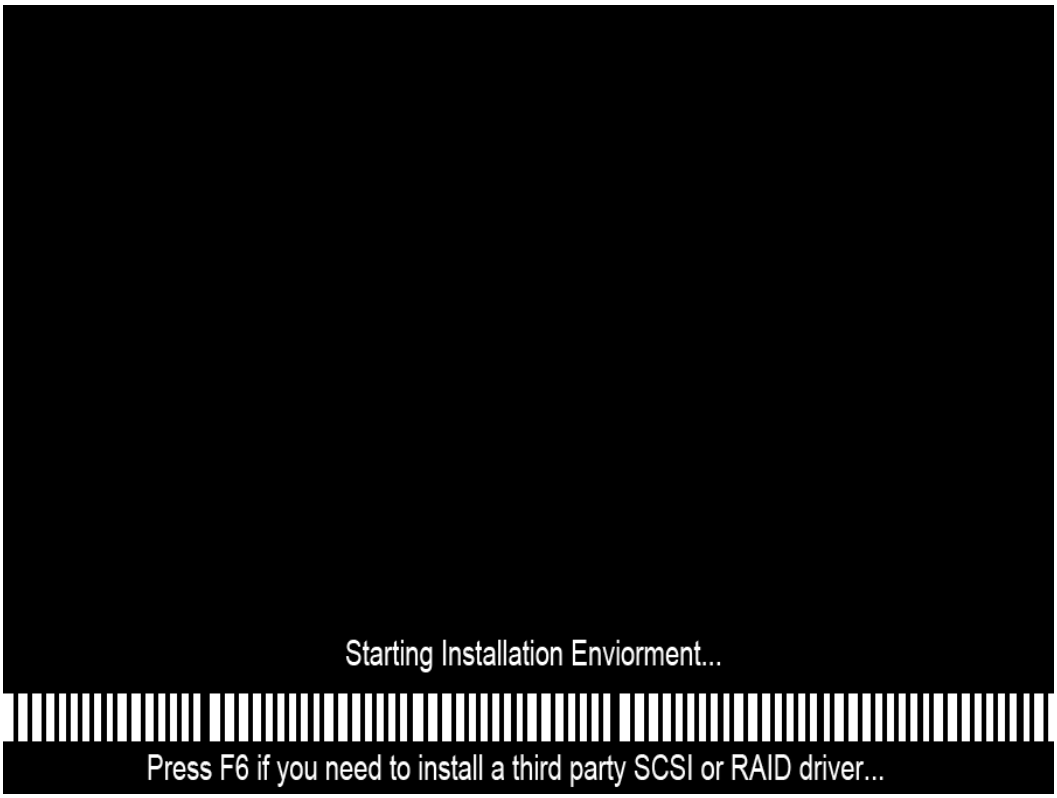
6. Repeat **Step 2**, **Step 3** and **Step 4**.
7. Press **ENTER** key to continue **Windows XP** installation.


Windows Setup
Setup will load support for the following mass storage device (s):
Intel (R) Destop/Workstation/Server Express Chipset SATA RAID Controller:
* To Specify additional SCSI adapter, CD-ROM drives, or special disk controllers for use with Windows, including those for which you have a device support disk from a mass storage device manufacturer, press S.
* If you do not have any device support disks from a mass storage device manufacturer, or do not want to specify additional mass storage devices for use with Windows, press ENTER.
S=Specify Additional Device ENTER=Continue F3=Exit

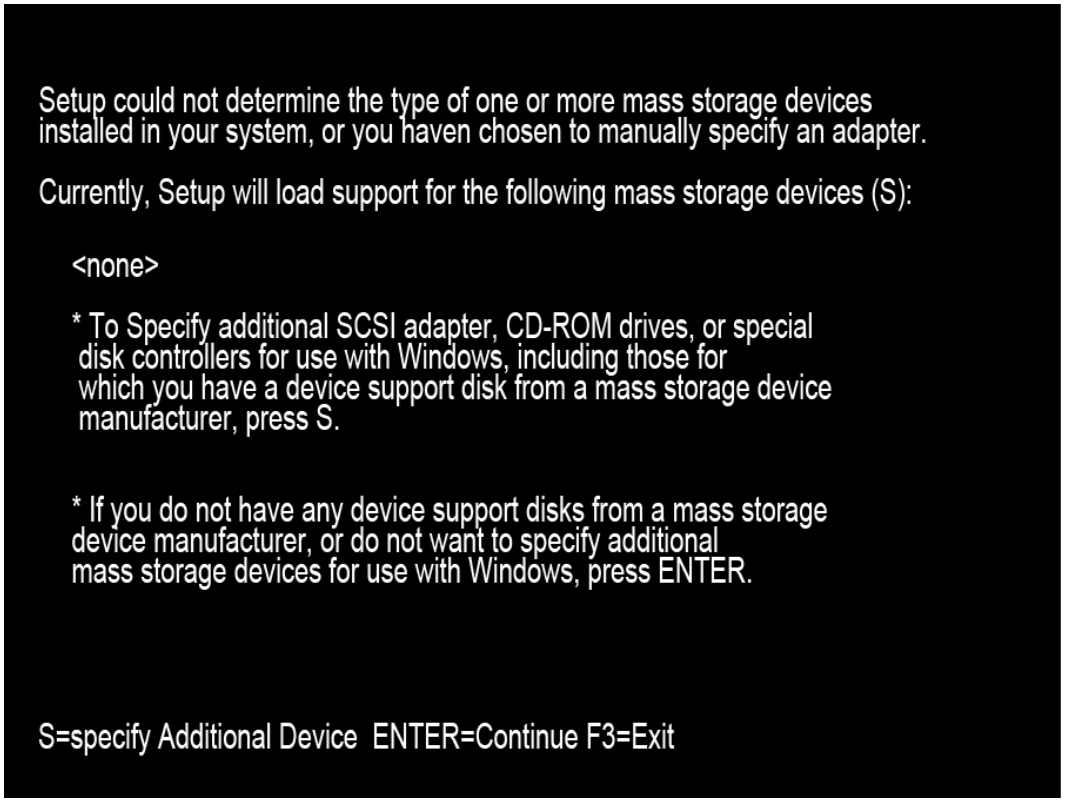
2.2. For Microsoft Windows Embedded POSReady

Steps described below are for **Microsoft Windows Embedded POSReady** series.

1. When the message on the gray bar shows, press the **F6** key of the external computer keyboard.

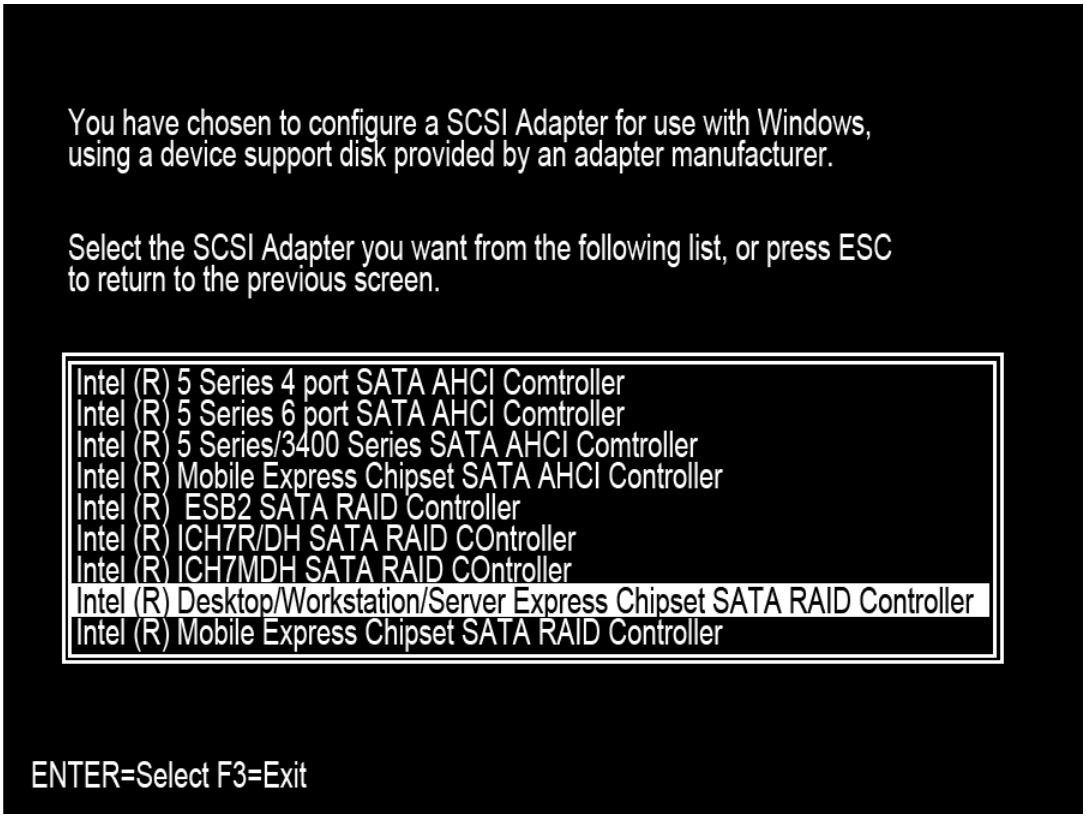


2. Press **ENTER** key.

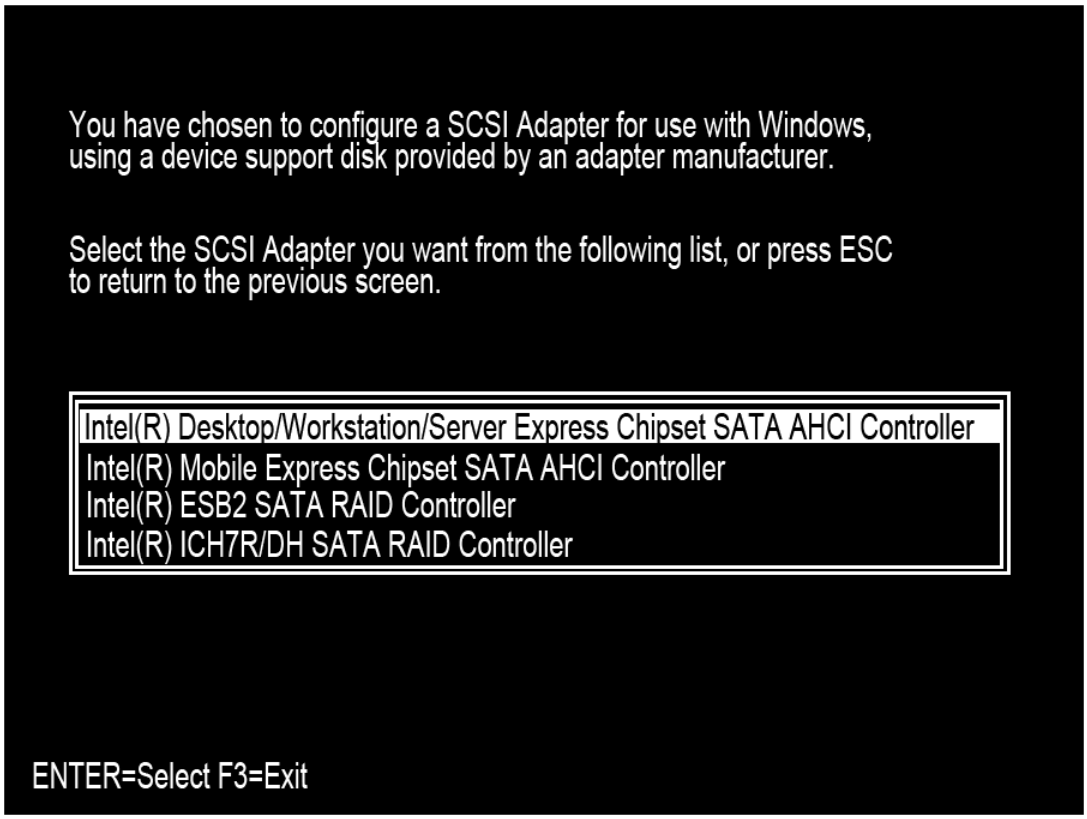

Setup could not determine the type of one or more mass storage devices installed in your system, or you haven chosen to manually specify an adapter.
Currently, Setup will load support for the following mass storage devices (S):
<none>
* To Specify additional SCSI adapter, CD-ROM drives, or special disk controllers for use with Windows, including those for which you have a device support disk from a mass storage device manufacturer, press S.
* If you do not have any device support disks from a mass storage device manufacturer, or do not want to specify additional mass storage devices for use with Windows, press ENTER.
S=specify Additional Device ENTER=Continue F3=Exit

3.

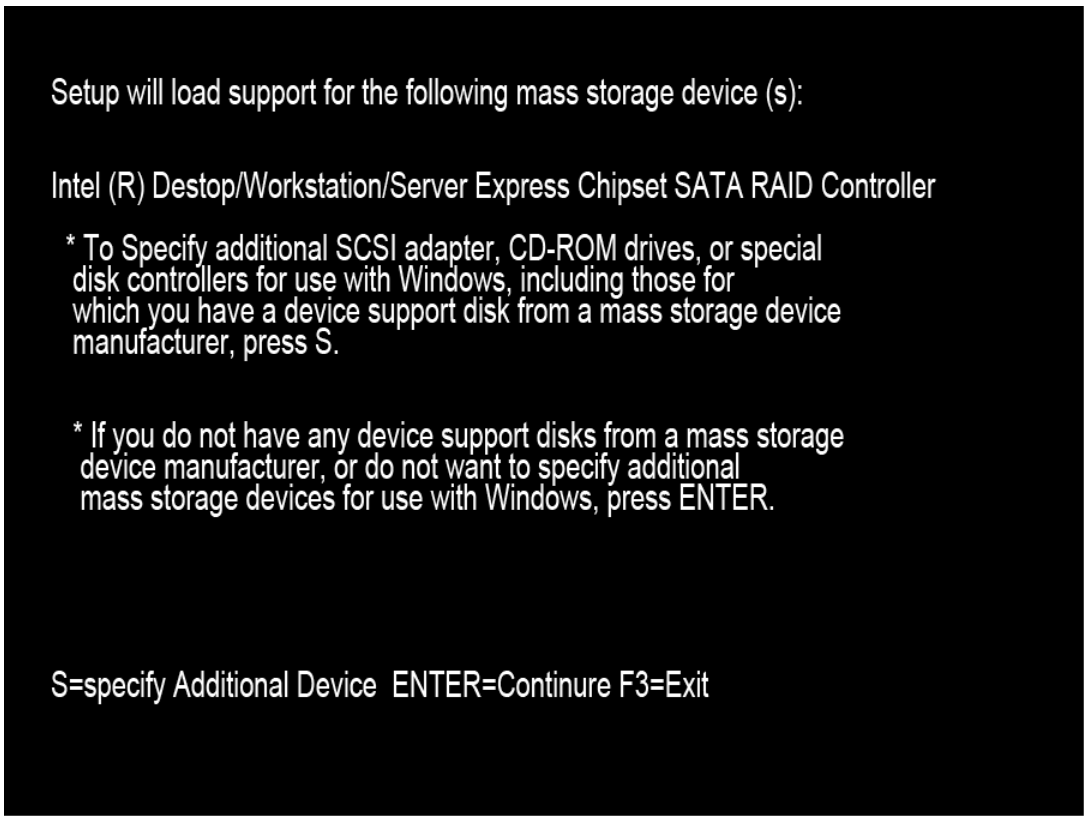
If "RAID **Mode**" is selected under the **SATA Configuration** in BIOS:
Use the ⬆ or ⬇ key to select **Intel (R) Desktop/Workstation/Server Express Chipset SATA RAID Controller**.


You have chosen to configure a SCSI Adapter for use with Windows, using a device support disk provided by an adapter manufacturer.
Select the SCSI Adapter you want from the following list, or press ESC to return to the previous screen.
Intel (R) 5 Series 4 port SATA AHCI Comtroller
Intel (R) 5 Series 6 port SATA AHCI Comtroller
Intel (R) 5 Series/3400 Series SATA AHCI Comtroller
Intel (R) Mobile Express Chipset SATA AHCI Controller
Intel (R) ESB2 SATA RAID Controller
Intel (R) ICH7R/DH SATA RAID COntroller
Intel (R) ICH7MDH SATA RAID COntroller
Intel (R) Desktop/Workstation/Server Express Chipset SATA RAID Controller
Intel (R) Mobile Express Chipset SATA RAID Controller
ENTER=Select F3=Exit

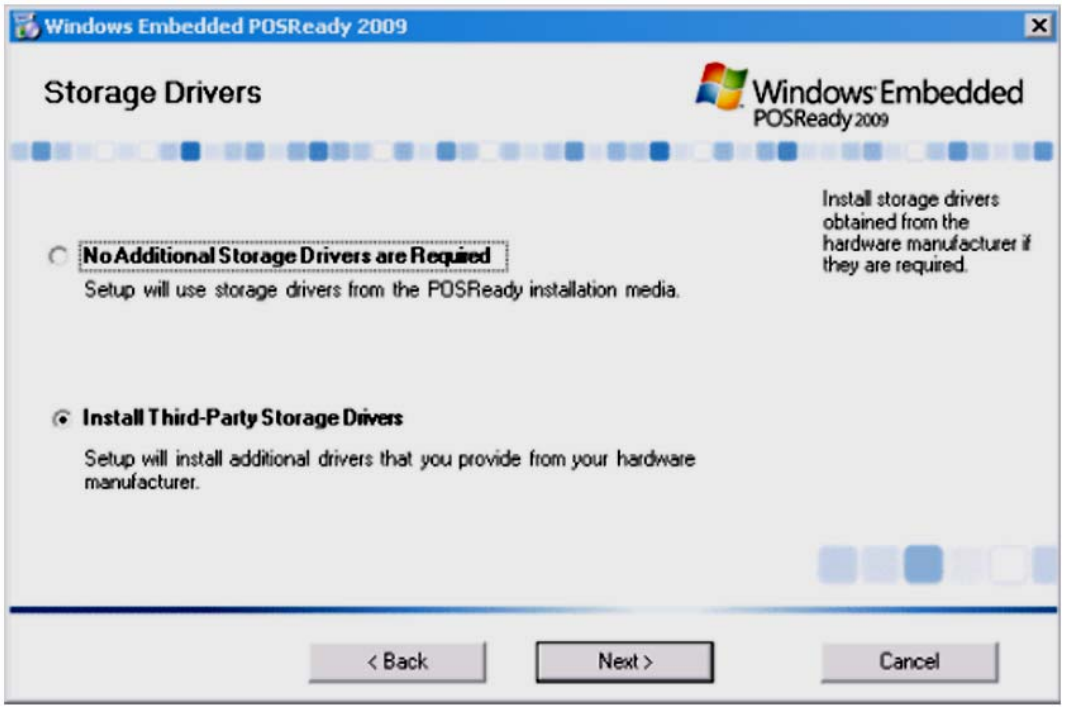
If “**AHCI Mode**” is selected under the **SATA Configuration** in BIOS:
Use the ⬆ or ⬇ key to select **Intel (R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller**.


You have chosen to configure a SCSI Adapter for use with Windows, using a device support disk provided by an adapter manufacturer.
Select the SCSI Adapter you want from the following list, or press ESC to return to the previous screen.
Intel(R) Desktop/Workstation/Server Express Chipset SATA AHCI Controller
Intel(R) Mobile Express Chipset SATA AHCI Controller
Intel(R) ESB2 SATA RAID Controller
Intel(R) ICH7R/DH SATA RAID Controller
ENTER=Select F3=Exit

4. Press **ENTER** key to continue.


Setup will load support for the following mass storage device (s):
Intel (R) Destop/Workstation/Server Express Chipset SATA RAID Controller
* To Specify additional SCSI adapter, CD-ROM drives, or special disk controllers for use with Windows, including those for which you have a device support disk from a mass storage device manufacturer, press S.
* If you do not have any device support disks from a mass storage device manufacturer, or do not want to specify additional mass storage devices for use with Windows, press ENTER.
S=specify Additional Device ENTER=Continure F3=Exit

5. On the screen below, select **Install Third-Party Storage Drivers**.
   Click **Next** to continue rest steps of **Microsoft Windows Embedded POSReady** installation.


Windows Embedded POSReady 2009
Storage Drivers
Windows Embedded POSReady 2009
Install storage drivers obtained from the hardware manufacturer if they are required.
No Additional Storage Drivers are Required
Setup will use storage drivers from the POSReady installation media.
Install Third-Party Storage Drivers
Setup will install additional drivers that you provide from your hardware manufacturer.
< Back
Next >
Cancel

2.3. For Microsoft Windows 7

There is not any special configuration or setting for RAID during Microsoft Windows 7 installation.

Install Windows
Windows 7
Language to install: English
Time and currency format: English (United States)
Keyboard or input method: US
Enter your language and other preferences and click "Next" to continue.
Copyright © 2009 Microsoft Corporation. All rights reserved.
Next

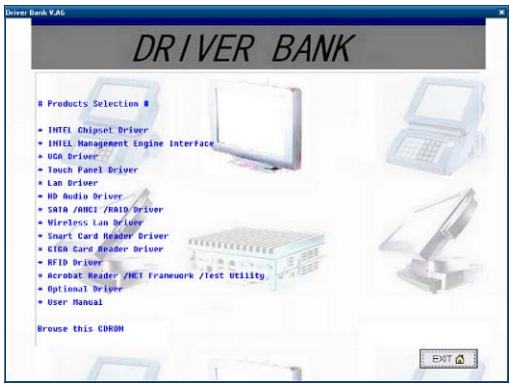
3.

Basic Driver Installation

3.1. Before the installation

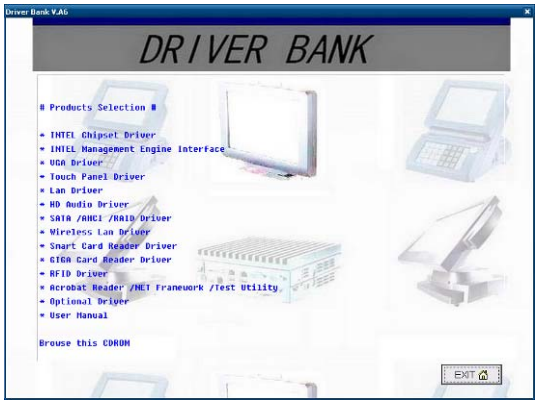
1. Connect an external USB CDROM to the USB port and insert the Driver and Utility DVD and turn on the device. The program autoruns and displays the **DRIVER BANK** screen.

2. On the **DRIVER BANK** screen, click **XPOS 950 Series** to enter the driver selection screen.



3.2. Chipset Software Installation

1. On the driver selection screen, click **INTEL Chipset Driver**.



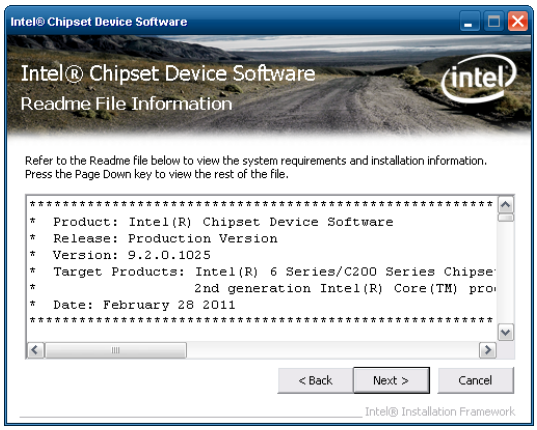
2. Click **Next**.

Intel® Chipset Device Software
Intel® Chipset Device Software
Welcome to the Setup Program
This setup program will install the Intel® Chipset Device Software onto this computer. It is strongly recommended that you exit all programs before continuing.
< Back
Next >
Cancel
Intel® Installation Framework

3. Read the License Agreement carefully and click **Yes**.

Intel® Chipset Device Software
Intel® Chipset Device Software
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No
Intel® Installation Framework

4. Click **Next**.

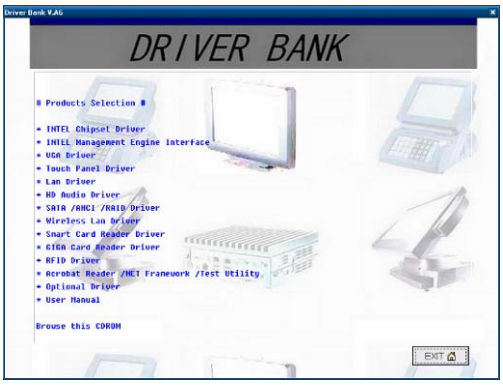

Intel® Chipset Device Software
Intel® Chipset Device Software
Readme File Information
Refer to the Readme file below to view the system requirements and installation information. Press the Page Down key to view the rest of the file.
* Product: Intel(R) Chipset Device Software
* Release: Production Version
* Version: 9.2.0.1025
* Target Products: Intel(R) 6 Series/C200 Series Chipse
* 2nd generation Intel(R) Core(TM) pro
* Date: February 28 2011
< Back
Next >
Cancel
Intel® Installation Framework

5. Click **Finish**.

Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Is Complete
The setup program successfully installed the Intel® Chipset Device Software onto this computer. Click Finish to complete the setup process.
Finish
Intel® Installation Framework

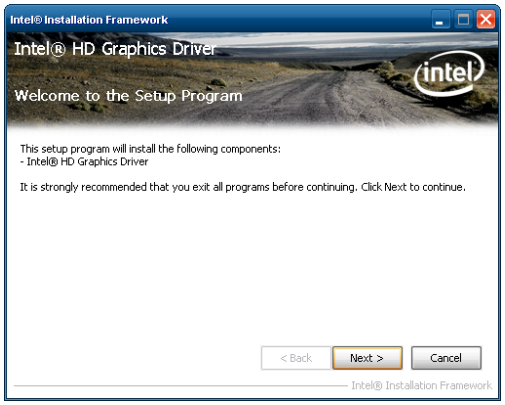
3.3. VGA Driver Installation

1. On the driver selection screen, click **VGA Driver**.

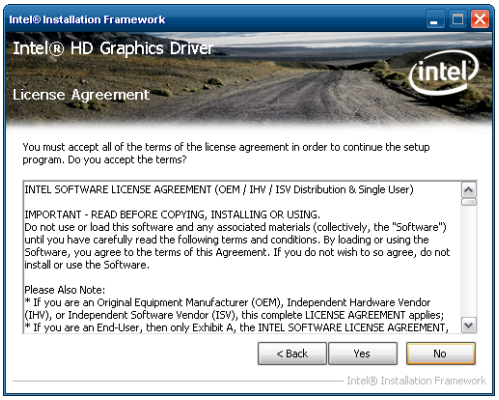


2. Click **VGA Driver for Windows XP**.

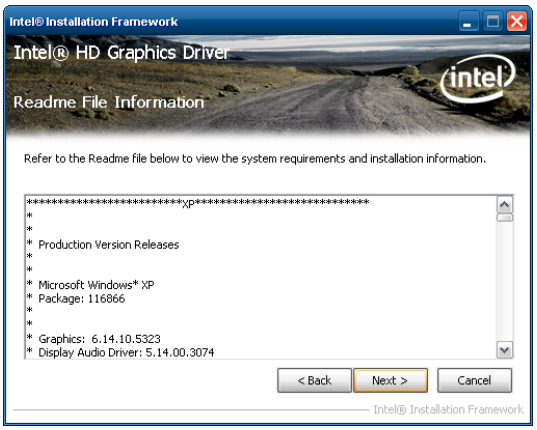
3. Click **Next**.


Intel® Installation Framework
Intel® HD Graphics Driver
Welcome to the Setup Program
This setup program will install the following components:
- Intel® HD Graphics Driver
It is strongly recommended that you exit all programs before continuing. Click Next to continue.
< Back
Next >
Cancel
Intel® Installation Framework

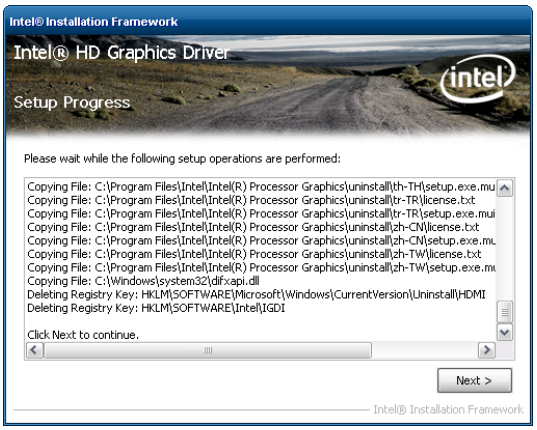
4. Read the License Agreement carefully and click **Yes**.


Intel® Installation Framework
Intel® HD Graphics Driver
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
* If you are an End-User, then only Exhibit A, the INTEL SOFTWARE LICENSE AGREEMENT,
< Back
Yes
No
Intel® Installation Framework

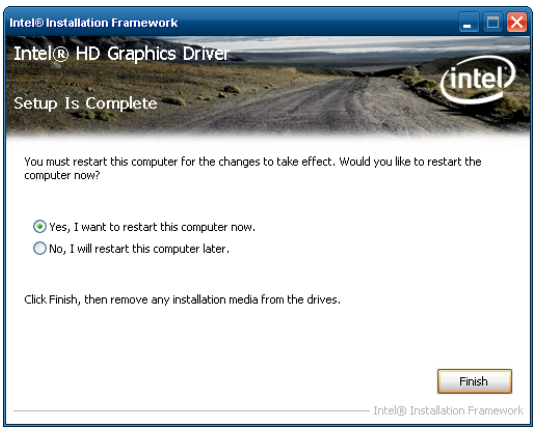
5. Click **Next**.



6. Click **Next**.

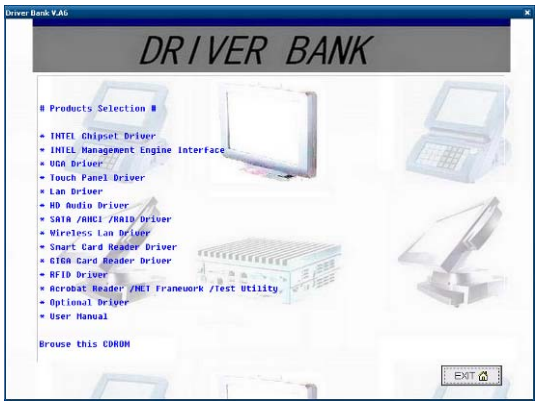

Intel® Installation Framework
Intel® HD Graphics Driver
Setup Progress
Please wait while the following setup operations are performed:
Copying File: C:\Program Files\Intel\Intel(R) Processor Graphics\uninstall\th-TH\setup.exe.mu
Copying File: C:\Program Files\Intel\Intel(R) Processor Graphics\uninstall\tr-TR\license.txt
Copying File: C:\Program Files\Intel\Intel(R) Processor Graphics\uninstall\tr-TR\setup.exe.mui
Copying File: C:\Program Files\Intel\Intel(R) Processor Graphics\uninstall\zh-CN\license.txt
Copying File: C:\Program Files\Intel\Intel(R) Processor Graphics\uninstall\zh-CN\setup.exe.mu
Copying File: C:\Program Files\Intel\Intel(R) Processor Graphics\uninstall\zh-TW\license.txt
Copying File: C:\Program Files\Intel\Intel(R) Processor Graphics\uninstall\zh-TW\setup.exe.mu
Copying File: C:\Windows\system32\difxapi.dll
Deleting Registry Key: HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\HDMI
Deleting Registry Key: HKLM\SOFTWARE\Intel\IGDI
Click Next to continue.
Next >
Intel® Installation Framework

7. Select restart your computer right now or later, and then lick **Finish**.


Intel® Installation Framework
Intel® HD Graphics Driver
Setup Is Complete
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

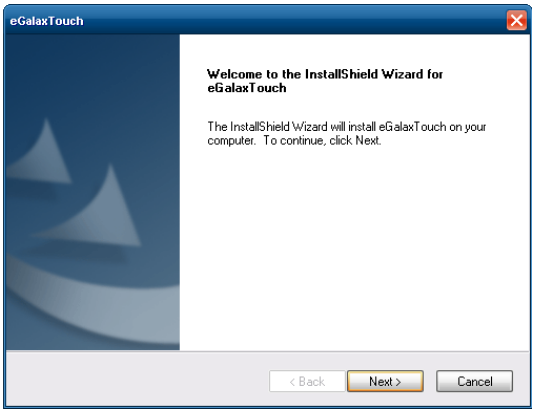
3.4. Touch Screen Driver and Software Utility installation

1. On the driver selection screen, click **Touch Panel Driver**.

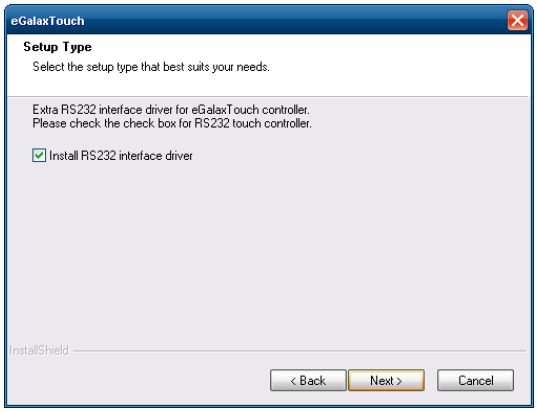


2. Click **Touch Panel Driver For Windows**.

3. Click **Next**.


eGalaxTouch
Welcome to the InstallShield Wizard for eGalaxTouch
The InstallShield Wizard will install eGalaxTouch on your computer. To continue, click Next.
< Back
Next >
Cancel

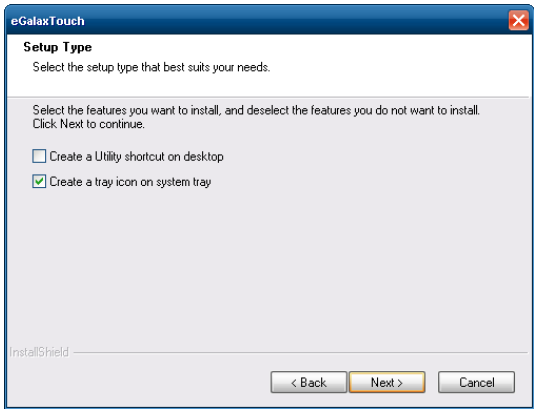
4. The **Install RS232 interface driver** box is checked as default, click **Next**.


eGalaxTouch
Setup Type
Select the setup type that best suits your needs.
Extra RS232 interface driver for eGalaxTouch controller.
Please check the check box for RS232 touch controller.
Install RS232 interface driver
InstallShield
< Back
Next >
Cancel

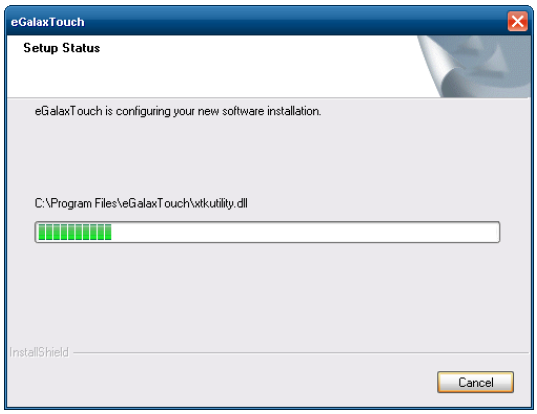
5. Click the **OK** button on the message box.

eGalaxTouch - InstallShield Wizard
If you are trying to install the USB touch device, please make sure that your touch monitor or touch controller's USB cable is plugged into the computer now.
Please close the "Found New Hardware Wizard" dialog when it appears.
OK

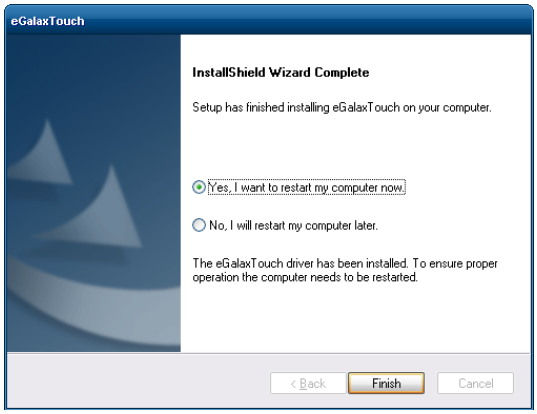
6. Check any box according to your needs, and then click **OK**.


eGalaxTouch
Setup Type
Select the setup type that best suits your needs.
Select the features you want to install, and deselect the features you do not want to install.
Click Next to continue.
Create a Utility shortcut on desktop
Create a tray icon on system tray
InstallShield
< Back
Next >
Cancel

7. The driver and program will be installed automatically.

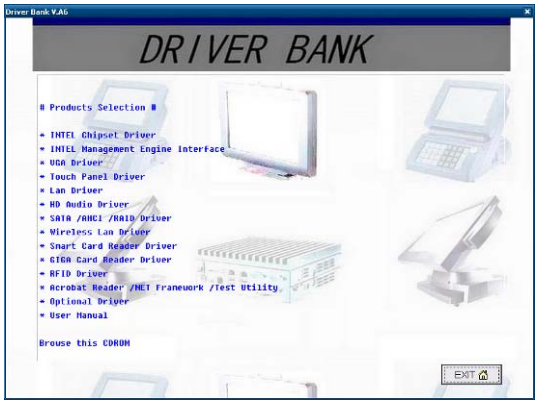


8. Select an item according to your needs, and then click **Next**.


eGalaxTouch
InstallShield Wizard Complete
Setup has finished installing eGalaxTouch on your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
The eGalaxTouch driver has been installed. To ensure proper operation the computer needs to be restarted.
< Back
Finish
Cancel

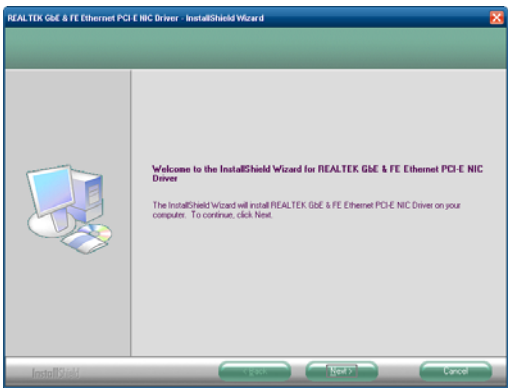
3.5. LAN Driver Installation

1. On the driver selection screen, click **LAN Drive**.

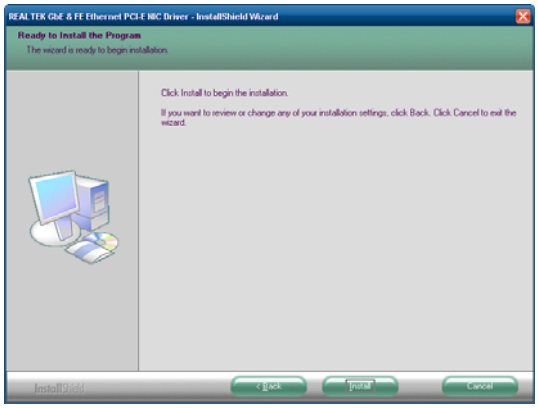


2. Click **RTL8111C Driver For XP**.

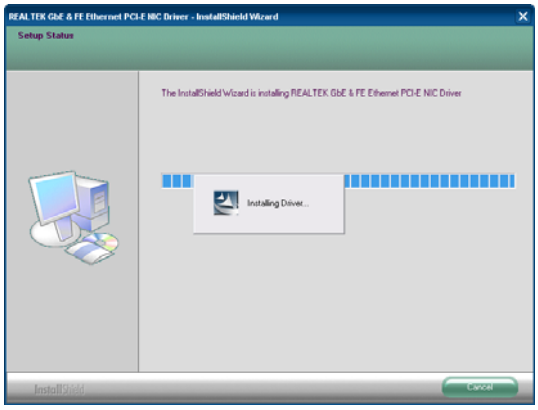
3. Click **Next**.


REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
Welcome to the InstallShield Wizard for REALTEK GbE & FE Ethernet PCI-E NIC Driver
The InstallShield Wizard will install REALTEK GbE & FE Ethernet PCI-E NIC Driver on your computer. To continue, click Next.
Next >
Cancel

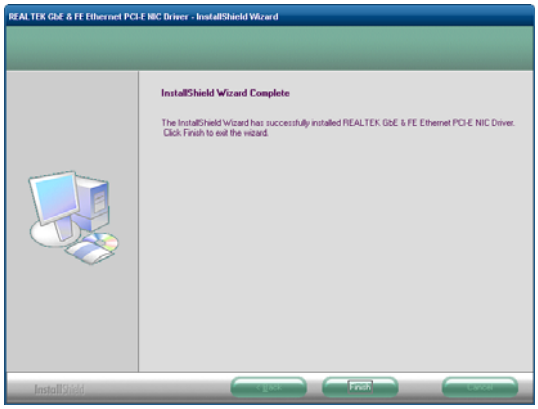
4. Click **Next**.


REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

5. The driver will be installed automatically.

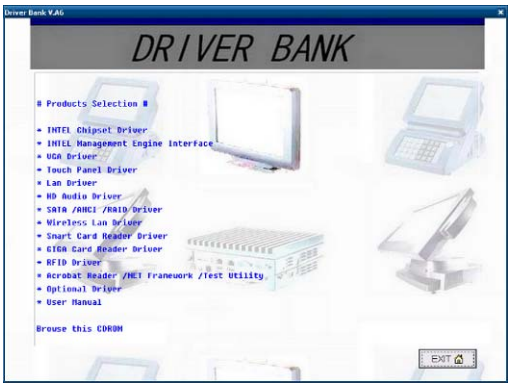

REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
Setup Status
The InstallShield Wizard is installing REALTEK GbE & FE Ethernet PCI-E NIC Driver
Installing Driver...
InstallShield
Cancel

6. Click **Finish**.

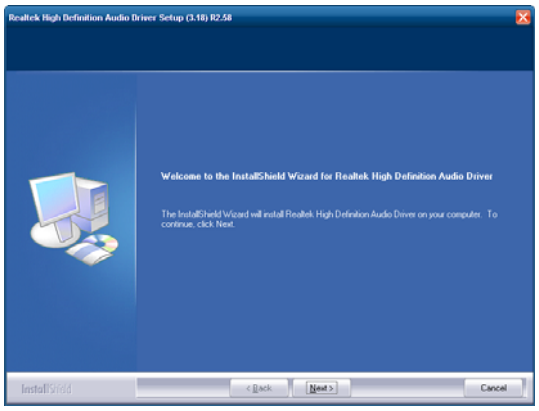

REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed REALTEK GbE & FE Ethernet PCI-E NIC Driver. Click Finish to exit the wizard.
InstallShield
< Back
Finish
Cancel

3.6. Audio Driver Installation

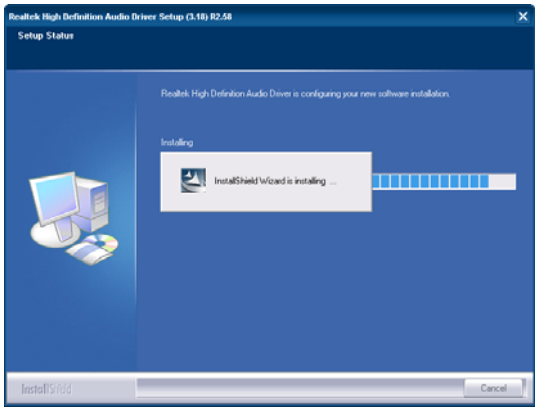
1. On the driver selection screen, click **HD Audio Driver**.



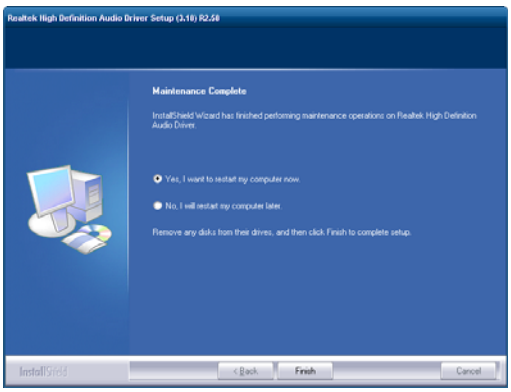
2. Click **Next**.


Realtek High Definition Audio Driver Setup (3.18) R2.58
Welcome to the InstallShield Wizard for Realtek High Definition Audio Driver
The InstallShield Wizard will install Realtek High Definition Audio Driver on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

3. The driver and program will be installed automatically.


Realtek High Definition Audio Driver Setup (3.18) R2.58
Setup Status
Realtek High Definition Audio Driver is configuring your new software installation.
Installing
InstallShield Wizard is installing ...
InstallShield
Cancel

4. Select an item according to your needs, and then click **Next**.

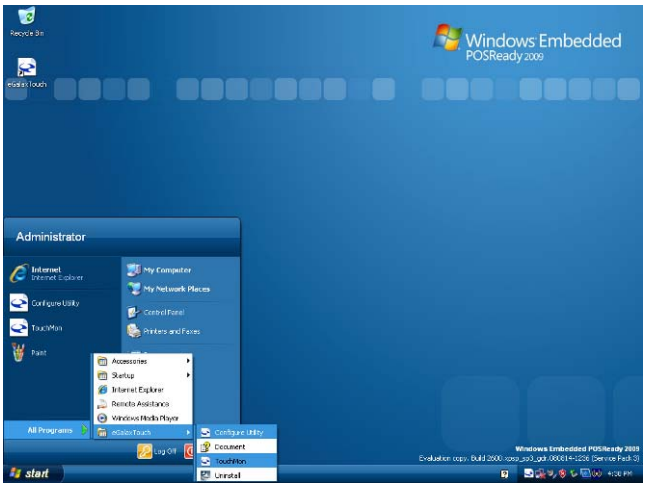

Realtek High Definition Audio Driver Setup (3.18) R2.58
Maintenance Complete
InstallShield Wizard has finished performing maintenance operations on Realtek High Definition Audio Driver.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
InstallShield
< Back
Finish
Cancel

4.

eGalaxy Touch Control Utility Quick Guide

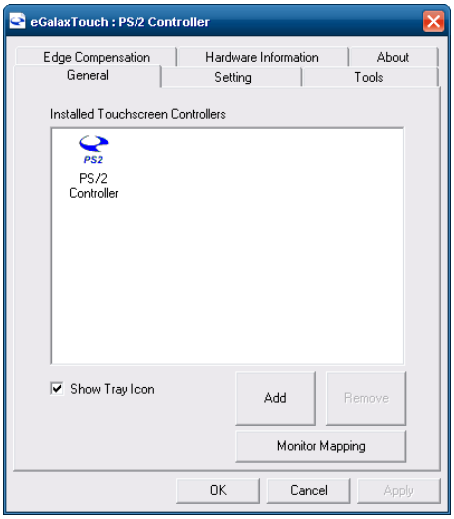
4.1. Launch eGalaxy Touch Control Utility

Under Microsoft Windows Embeded, click “**Start**” menu and select “**All Programs**”, under ”**eGalaxy Touch**” menu, click “**TouchMon**”.



4.2. General

The **General** tab in **eGalaxy Touch** shows all of **TouchMon** touchscreen controllers installed as below, including RS232, USB and PS2 interfaces.



Add

The function button is used for serial RS232 controllers only. Press this button to search the **TouchMon** serial controllers connected with the COM ports of the device. Whenever it finds a new **TouchMon** serial controller, a new serial controller icon object will be shown in the controller list window automatically.

USB **TouchMon** device supports plug and play, the icon object for USB controller will be shown in the controller list window automatically when the USB controller is connected with the USB port of the device. And, the icon object for the USB controller will disappear automatically as soon as the device was removed from the USB port of the device.

TouchMon PS2 driver support PS2 mouse and **TouchMon** touchscreen controller. It can works with both PS2 mouse and **TouchMon** touchscreen PS2 controller. After the **TouchMon** PS2 driver was installed, this utility assumes the PS2 touchscreen controller exists and is always shown in the controller list window.

Remove

This function button is used for serial RS232 controllers only. This button will be grayed and disabled automatically when the selected controller in the controller list window is not RS232 type. Press to remove and uninstall the selected serial RS232 controller from the device. Then, this serial RS232 icon object in controller list window disappears automatically.

USB **TouchMon** device supports plug and play, the icon object for USB controller will be shown in the controller list window automatically when the USB controller is connected with the USB port of the device. And, the icon object for the USB controller will disappear automatically as soon as the device was removed from the system USB port.

TouchMon does not allow you to remove/uninstall the PS2 device driver dynamically. To uninstall the **TouchMon** PS2 driver, you need to go to Windows Device Manager to do un-installation. In addition, after PS2 un-installation, it needs to reboot the device to complete un-installation.

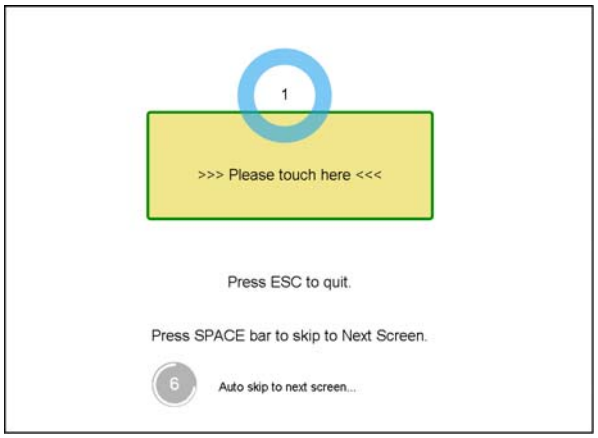
Monitor Mapping

This function is to define the primary touchscreen display when external touchscreen display is connected.

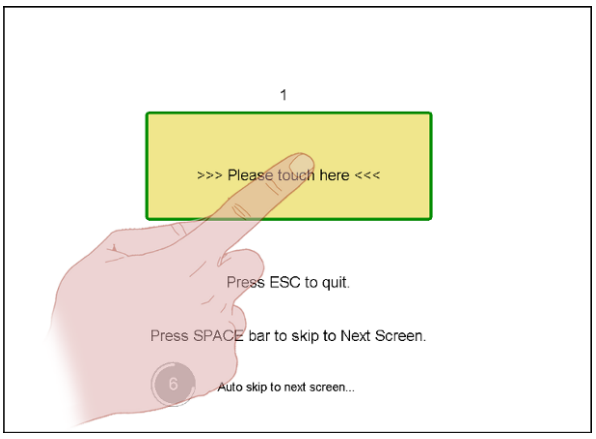
The first touchscreen display (including the onboard 15" touchscreen) where you run this function first will be set as the primary one.

On the touchscreen display you want to set as the primary, launch the **eGalaxy Touch** and click the **Monitor Mapping** button under the **General** tab.

The screen below will show, the character "1" means "primary" ("2" means secondary, and so on).

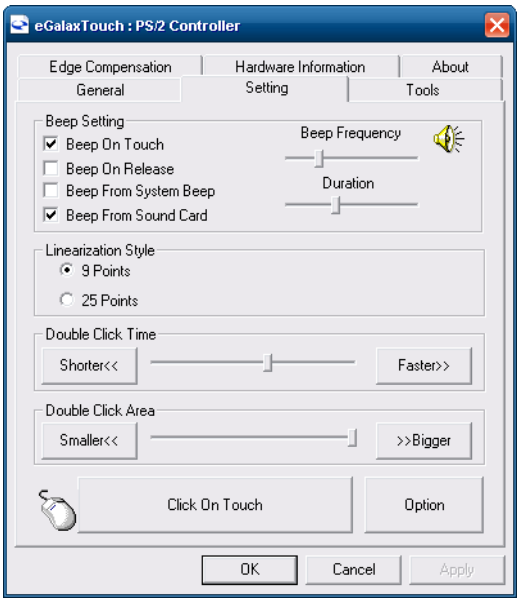


Touch the yellow box to switch back to the **General** tab.



4.3. Settings

There are function buttons and check boxes in the **Settings** tab.



Beep

Beep On Touch

Check this check box to enable driver to generate a beep sound when touchscreen state is switched from untouched to touched state.

Beep On Release

Check this check box to enable driver to generate a beep sound when touchecreen state is switched from touched state to untouched state.

Beep From System Beep

Check this check box to enable driver to generate a beep sound from the operation system.

Beep From Sound Card

Check this check box to enable driver to generate a beep sound from the sound card onboard.

Frequency

Drag the slider to adjust this frequency to control the beep sound frequency generated by the driver.

Duration

Drag the slider to adjust this duration to control the beep sound duration.

Linearization Style

TouchMon provides you with both 9 points and 25 points calibration for linearization. You can select the suitable linearization type.

Double Click Time

Double Click Time is used to set double click time. Change this value will affects the double click behavior for all of the mouse devices connected to the device. Two continuous clicks at the same area within this specified time period will be recognized as a double click event.

Double Click Area

Double click area is used to set the double click area. Change this value will affects the double click behavior for all of the mouse devices connected to the device. Two continuous clicks with this specified area in the specified double click time will be recognized as a double click event.

Click On Touch

Change the emulation mode by pressing on this button.

Normal Mode

Normal mode behaves mouse button down and mouse move. You can select this mode to select object, and dragging the object.

Click On Touch

With this **Click On Touch** mode, the driver emulates a mouse click event when the touchscreen state was switched from un-touched state to touched state. Then, the driver always generate mouse move event and is tracking the touch position until the touchscreen state switched to un-touch state.

Click On Release

With this **Click On Release** mode, the driver emulates a mouse click event when the touchscreen state was switched from touched state to un-touched state.

Click On Touch without moving cursor

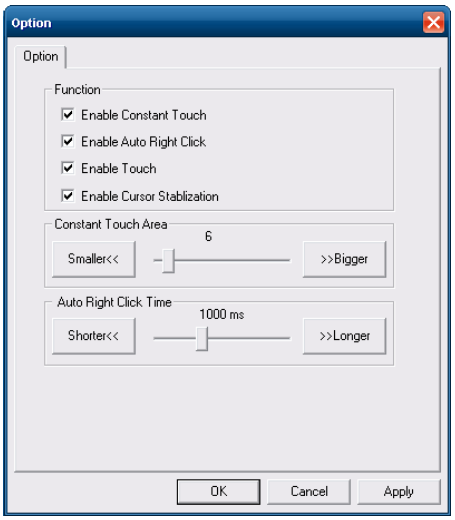
With this mode, the driver behaves similar as **Click On Touch** mode. The cursor does not move to the touch position except the first touch point.

Click On Release without moving cursor

With this mode, the driver behaves similar as **Click On Release** mode. The cursor does not move to the touch position except the lift-off point.

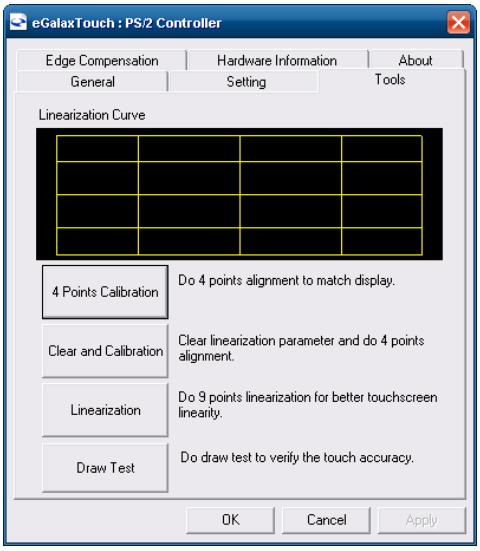
Option

You can set configuration for some advanced functions with this option button. Press this button, a pop up property sheet window will be popped up and shown as below.



4.4. Tools

There are function buttons and check boxes in the **Tools** tab.

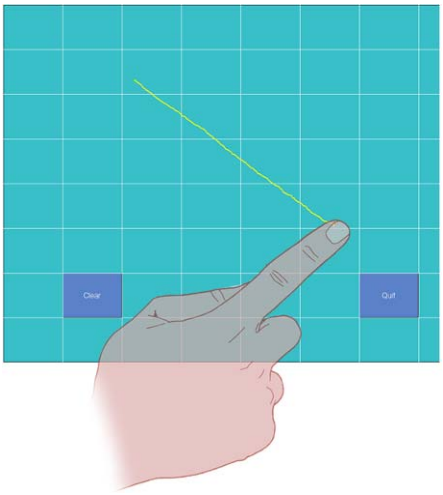


4 Points Calibration, Clear and Calibration, and linearization button

Click the one of three these buttons and follow the instruction on the screen to do the screen calibration.

Draw Test

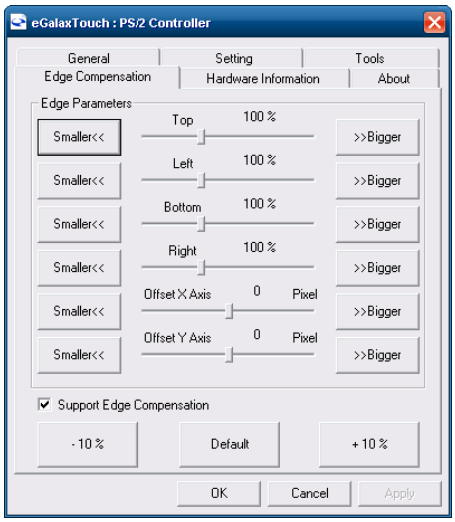
After clicking this button, you can do the drawing test by drawing any path on the screen as shown below.



You can remove all paths you drew by clicking **Clear**, or exit this screen by clicking **Quit**.

4.5. Edge Compensation

Edge Compensation property page contains functions of **Edge Compensation** for Top, Bottom, Left, Right, X Axis and Y Axis.



In some cases, if it is difficult to touch items at the edges of the touch panel, you can set adjustment to reach the edges of the screen image.

Top

If you set the Edge to "Smaller", **TouchMon** will reduce the horizontal position of the top edge. If you set the Edge to "Larger", **TouchMon** will extend the horizontal position of the top edge.

Bottom

If you set the Edge to "Smaller", **TouchMon** will reduce the horizontal position of the bottom edge. If you set the Edge to "Larger", **TouchMon** will extend the horizontal position of the bottom edge.

Left

If you set the Edge to "Smaller", **TouchMon** will reduce the vertical position of the right edge. If you set the Edge to

"Larger", **TouchMon** will extend the vertical position of the left edge.

Right

If you set the Edge to "Smaller", **TouchMon** will reduce the vertical position of the right edge. If you set the Edge to "Larger", **TouchMon** will extend the vertical position of the right edge.

In some cases, cursor will be behind the finger when you touch the panel. If you can not see the cursor when you touch down the panel, you can set **X Axis** or **Y Axis** to move the cursor.

Offset X Axis

If you set the Offset X Axis to Smaller, cursor will be moved a pixel of X Axis to left.

If you set the Offset X Axis to Larger, cursor will be moved a pixel of X Axis to right.

Offset Y Axis

If you set the Offset Y Axis to Smaller, cursor will be moved a pixel of Y Axis to top.

If you set the Offset Y Axis to Larger, cursor will be moved a pixel of X Axis to bottom.

Edge Compensation Switch

You can check **Support Edge Compensation** check box to enable/disable this function from left corner.

Edge Compensation Button

Click **+10%** or **-10%** button to adjust the smaller or larger of edge.

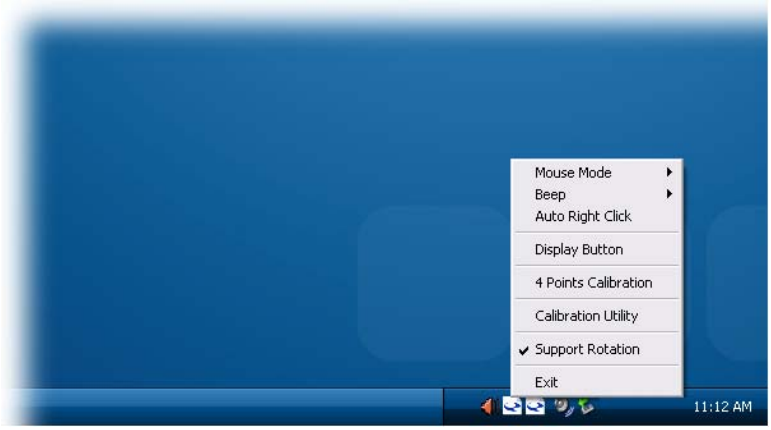
If you click **+10%** button, the top, bottom, left and right edges will extend 10% of orientation to touch screen, and cursor will be moved 10 pixel of X and Y Axis to right and top.

If you click **-10%** button, the top, bottom , left and right edges will contract 10% of orientation to touch screen, and cursor will be moved 10 pixel of X and Y Axis to left and bottom.

Click **Default** button to resume to the default value.

4.6. How to Use Event Selector

For launching the event selector, right click on the **eGalaxy** icon on the task bar, and then select **Display Button** command.



1. On the desktop of Windows, click icon.
2. icon change to .
3. Now the tapping is simulating right mouse button clicking.
4. After one tap on the screen, icon change to .
5. The tapping resumes to left mouse button clicking.

5.

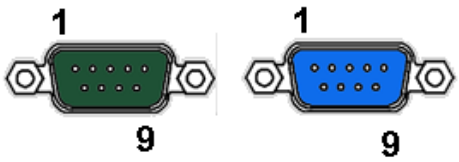
I/O Definition

Please refer the detailed technical information about all I/O ports as followings.

5.1. Power Connector

PIN	Description	PIN	Description
1	+19V	3	GROUND
2	+19V	4	GROUND

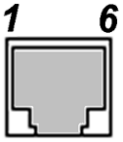
5.2. Serial Port



COM Port			
PIN	Description	PIN	Description
1	DCD	6	DSR
2	RXD	7	RTS
3	TXD	8	CTS
4	DTR	9	RI / 5V /12V
5	GND		

PIN	R232	RS422	RS485
1	DCD	TX-	D-
2	RXD	TX+	D+
3	TXD	RX+	
4	DTR	RX-	

5.3. Cash Drawer



Connector

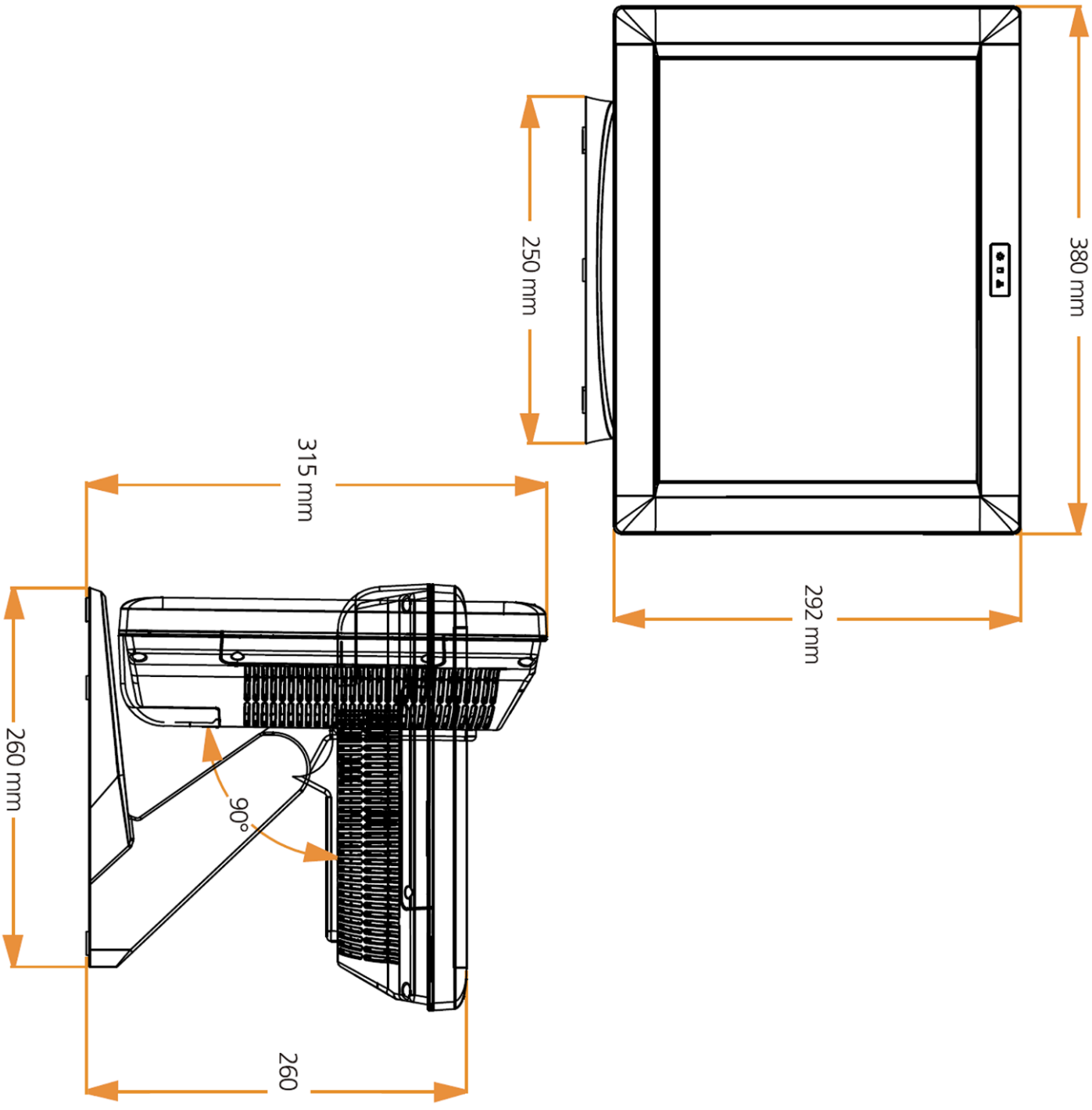
PIN	Description	PIN	Description
1	GND	4	P24V
2	D_OUT0	5	N/C
3	D_IN	6	GND

Cash Drawer Control

Status	Address	Value
Open	280H	Bit 4 = 0
Close	280H	Bit 4 = 1
Read Status	280H	Bit 0 = 0/1

6.

Specification



Main Board	
CPU	Intel® Sandy Bridge LGA1155 Core i7 - 2600 3.4 GHz (TB 3.8GHz) / L3: 8MB / 4 core 8 threads / 95 watt Core i5 - 2400 3.1 GHz (TB 3.4GHz) / L3: 6MB / 4 core 4 threads / 95 watt Core i3 - 2120 3.3 GHz / L3: 3MB / 2 core 4 threads / 65 watt Pentium G850 2.9 GHz / L3: 3MB / 2 core 2 threads / 65 watt
Chipset	Intel® BD82Q67 PCH
System Memory	2xDIMM, supported DDR3 1066/1333. up to 8GB per channel
OS	Windows® XP / WES, POSReady 2009, Windows 7
Display	
TFT LCD Size	15”
Brightness	250 nits , brightness adjustment by BIOS
Resolution	1024 x 768
Touch Screen	5-wire Resistive Type
Tilt Angle	0°~90°
Storage Device	
HDD	2 x 2.5" Removable HDD Drive Bay , Support RAID 0, 1 function
Compact Flash	1 x CFast slot
I/O Ports	
Serial	5 x RS-232 COM 1 : RS-232/422/485, DB-9, Pin9 w/ RI/5V/12V Selectable by BIOS COM 2 / 5 : DB-9, Pin9 w/ RI/5V/12V Selectable by BIOS COM 3 : RS232, internal pin header for MSR COM 6 : RS232, internal pin header for Customer Display
VGA	1 x DB15, Supported DC12V/1A output.
USB	6 x USB 2.0 (4 x external, 2 x internal)
LAN	2 x Gigabit Ethernet by RJ-45 , Support Wake on LAN
Cash Drawer	1 x RJ-11 (24 VDC)
PS/2 Keyboard / Mouse	1 x Mini-DIN
Parallel	1 x DB25
Others	
Wall mount	Support VESA Mount 75x75 / 100x100mm
Power Input	External adapter,180Watt, 19VDC input
Color	Black
Material	Plastic / Aluminum
EMC& Safety Compliance	FCC / CE / WEEE / RoHS / VCCI
Front Panel Protection	IP 65 compliance
Weight	7.95 Kg (appox.)
Dimension	380W x 260D x 315H (mm)
Operation Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Storage Humidity	20% - 90% RH, non-condensing
Audio	1.5W Speaker X 1

Optional Accessories
Customer display: VFD Attached, 20 columns x 2 lines, RS-232 Type
MSR-Front Type, 3 Tracks, PS/2 Type
MSR-Side Type, 3 Tracks, PS/2 Type & Finger Print, USB Type
MSR-Side Type, 3 Tracks, PS/2 Type & i-Button, PS/2 Type
12.1” 2nd Display

Specifications are subject to change without notice.